



Media Release

Lahontan Regional Water Quality Control Board

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www.waterboards.ca.gov/lahontan

Lahontan Water Board and Dairy Owners Reach Settlement Agreement over Water Code Violations

N & M Dairy to pay \$188,425 penalty and establish conservation easement

For Immediate Release
December 12, 2013

Contact: Lauri Kemper
(530) 542-5436

The Lahontan Regional Water Quality Control Board (Lahontan Water Board) has reached a settlement agreement with Neil and Mary de Vries, owners of the N&M Dairy in San Bernardino County. The agreement resolves violations of Lahontan Water Board orders, calls for elimination of nuisance conditions, and protects water quality and beneficial uses of water at the dairy, which is located along the Mojave River, near the unincorporated community of Helendale.

Under the settlement agreement, the dairy must pay \$188,425 to the State Water Resources Control Board (State Water Board) and establish a 300-acre conservation easement consisting largely of Mojave River channel and floodplain habitat located on the dairy property. Failure to establish a 300-acre conservation easement by August 2014 will result in the de Vries paying an additional \$188,425 to the State Water Board.

The conservation easement will allow the land to return to a naturally functioning river floodplain and adjacent habitat area. No development, including farming, is allowed in the conservation easement. Habitat restoration and preservation along the Mojave River is important since development along the river, including farming, has eliminated or reduced habitat for desert wildlife, including the endangered California desert tortoise, and has disrupted the river's natural flow patterns, causing erosion and loss of native vegetation.

The settlement agreement resolves violations of Lahontan Water Board Cleanup and Abatement Orders that were issued in 2010 and 2011. The Lahontan Water Board adopted the Orders in response to inadequately managed waste discharges, including cow manure and urine, dairy wash water, and storm water runoff generated at the 909-acre dairy. Improper management of the wastes resulted in groundwater pollution in some nearby residential wells and in significant fly infestations and odors at neighboring residences. The Orders required replacement drinking water for residents with affected domestic wells, improvements to

manure management and removal practices and dairy wash water treatment and disposal to correct nuisance conditions (odors and flies). The dairy owners violated the requirements addressing manure management and removal and dairy wash water management.

During settlement negotiations, the dairy closed and cleanup activities are underway. The dairy closure and cleanup activities have eliminated the fly and odor problems and additional waste discharges to the environment, which will result in water quality improvement. The de Vries will continue to be under a Lahontan Water Board Order requiring them to provide replacement water to affected domestic wells until specific criteria are satisfied.

The Water Board protects the water quality and beneficial uses of surface and ground waters in the Lahontan Region of eastern California, from the Oregon border through the Mojave Desert.

Please find the adopted order here:

http://www.waterboards.ca.gov/lahontan/board_decisions/adopted_orders/2013/docs/r6v_2013_0103.pdf

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

CLEANUP AND ABATEMENT ORDER NO. R6V-2010-0029

WDID NO. 6B368010004

**REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE NUISANCE CONDITIONS
CAUSED BY EXCESSIVE MANURE AND STANDING MANURE MIXED WITH WATER
FROM DAIRY OPERATIONS AT N & M DAIRY**

San Bernardino County

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Water Board) finds that:

1. Neil and Mary de Vries (hereafter the "Discharger") own and operate the N & M Dairy, a 904-acre dairy site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road in Helendale in San Bernardino County. The N & M Dairy site includes San Bernardino County Assessor's parcel numbers 466-041-01, 466-041-17, 466-041-20, 466-041-21, 466-041-22, 466-041-23, 466-091-15, 466-091-17, 466-091-26, 466-101-05, 466-101-06, and 466-111-02.
2. Waste Discharge Requirements (WDRs) contained in Water Board Order No. 6-01-38 regulate waste discharges from the N & M Dairy.
3. The Discharger is in violation of several requirements of Water Board Order No. 6-01-38, as specifically listed below.

- a. Discharge Specification I.C.4.d. that states:

"Neither the treatment nor the discharge shall cause a nuisance as defined in Section 13050 of the California Water Code."

California Water Code (CWC) section 13050 subdivision (m) defines "nuisance" as a condition that meets all of the following requirements:

- (1) *Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.*
- (2) *Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.*
- (3) *Occurs during, or as a result of, the treatment or disposal of wastes.*

Water Board staff received complaints from residents near the N & M Dairy in April and early May 2010 stating that offensive odors are emanating from N & M Dairy and that the Dairy and neighborhood is fly-infested. The residents reported that the odor and flies are unbearable and prevent them from the free use of

their properties. On May 10, 2010, Water Board staff inspected N & M Dairy and neighboring properties and made several observations, including but not limited to the following: (1) Some of the corrals at the N & M Dairy contained piles of manure and standing water was in contact with the manure. (2) Manure was stockpiled at the southeast corner and west side of the N & M Dairy property. (3) N & M Dairy's wastewater retention ponds contained large amounts of manure solids. These waste management and disposal practices lead to ongoing conditions of wet manure at the Dairy. A map showing the location of the ponds and manure stockpiles is attached (Attachment A).

Wet manure creates an odor problem and habitat for vectors, such as flies, that feed and breed in the manure. Staff observed thousands of flies and noted odors throughout the inspection of the dairy. The conditions observed by Water Board staff confirmed the validity of the residents' complaints. The odors and flies from the improperly stored and disposed manure by N & M Dairy are indecent or offensive to the senses of the residents in close proximity to N & M Dairy, and prevent the residents from the free use of their properties. Thus, a condition of nuisance has been created by the treatment and/or disposal of waste (manure) at the N & M Dairy. The actions required in this Cleanup and Abatement Order (Order) are essential to reduce odors and flies that result from N & M Dairy's treatment and/or disposal of manure from affecting nearby residents.

b. Discharge Specification I.A.2 that states:

"Application of manure to the disposal area shall not exceed the agronomic application rate. The calculated agronomic application rate for the [N & M Dairy] is 3.60 tons of dry manure per acre annually. Each year, a maximum of 3,100 tons (dry weight) of manure can be disposed of onto the 859 acres of disposal area."

According to the latest information the Discharger submitted to Water Board staff, N & M Dairy has 400 acres of cropland at the dairy property. Based on the calculated allowed agronomic application rate of 3.60 tons per acre, this area of cropland can only utilize 1,440 tons of generated dry manure per year. N & M Dairy has approximately 4,500 cows and heifers. Assuming that a cow produces 19 lbs of dry manure per day,¹ N & M Dairy may generate 15,600 tons of dry manure per year. This amount of manure is significantly more than what the Discharger can agronomically apply to cropland at the dairy area and the Discharger is storing excess manure at the Dairy site.

c. Discharge Specification I.A.3 that states:

"Manure remaining after application to the authorized onsite disposal areas shall be hauled away annually and properly applied or disposed of so as not to

¹ Natural Resources Conservation Service 210-VI-AWMFH, March 2008, Part 651 Agricultural Waste Management Field Handbook, P. 4-13.

adversely affect water quality in that area. No offsite disposal site may be within one mile from the Mojave River. Offsite disposal shall be reported in each monitoring report for the reporting period."

During the May 5, 2010 inspection, Water Board staff observed manure stockpiles covering several acres on the southeast corner and some stockpiles on the west side of the N & M Dairy property. Staff also observed manure piles in the corrals and wet areas within the corrals. Further, Water Board staff observed that the retention ponds contained large amounts of manure solids. Unused manure must be hauled away and cannot be stored at the dairy.

4. Water Board staff inspected N & M Dairy on January 7, 2010. Staff observed manure piles within the corrals and several acres of manure piles outside the corral area. Some of the piles outside of the corral area were discolored and appeared to be several years old. Staff also noted standing water within the corrals, low areas adjacent to the corrals, and between the manure piles. This standing water was in contact with manure solids. Some of the manure piles were located near the drainage ditches and appeared eroded by storm water runoff from the upper drainage area.
5. During inspections on March 26 and June 23, 2009, Water Board staff observed manure piles in the corrals and on several acres near the corrals. Retention ponds were half-full with manure deposited by wash water discharge. Water Board staff issued a notice of violation to the Discharger on July 1, 2009 to correct these violations. The Discharger has taken action to remove some of the manure piles to abate the violation; however, these actions have not been adequate and the nuisance condition persists.
6. Pursuant to Water Code section 13267, subdivision (b):

In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharges waste within its region, ... shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.
7. Pursuant to Water Code section 13267, subdivision (b), this Order requires the Discharger to submit technical and monitoring reports, including but not limited to work plans, to Water Board staff. The Water Board needs the information required by these reports to ensure the cleanup and abatement of the nuisance conditions created by N & M Dairy. Further, these reports shall serve to verify that N & M Dairy

performs all actions required by the work plans and that performance of those actions is adequate to complete cleanup and abatement of the nuisance conditions.

8. Water Code section 13304, subdivision (a) states:

Any person ... who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup and abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

THEREFORE, IT IS HEREBY ORDERED that, pursuant to California Water Code section 13267 (see Attachment "B") and section 13304, the Discharger shall take the following actions to comply with this Order:

A. ORDERS:

1. By **July 21, 2010**, submit to the Water Board staff a detailed Manure Removal Plan including a time schedule to remove excess manure (i.e., manure remaining after authorized application to the onsite disposal areas) from the N & M Dairy properties. The Manure Removal Plan must include cleanup of corrals, retention ponds, and the stockpiles of manure on the southeast and west side of the property (see Attachment A). Further, the Manure Removal Plan must identify the location where excess manure will be exported, the name and address of the recipient, total dry weight (tons) of manure to be exported, how long it will take to complete manure cleanup from the corrals, retention ponds, and other identified areas (see Attachment A), and a long-term manure disposal plan that allows the N & M Dairy to achieve compliance with its WDRs.
2. By **August 1, 2010**, begin implementation of the Manure Removal Plan.
3. By **October 7, 2010**, develop and submit to the Water Board staff a Nutrient Management Plan (NMP) and Best Management Practice (BMP) plan for the N & M Dairy site.

- a. The NMP must address the timing and the amount of nitrogen and salt (sodium chloride) that can be agronomically applied to the cropland. The NMP must include the amount of acreage used by N & M Dairy for growing crops, the type of crops planted in each season, the projected amount of nitrate and salts utilized by the crop(s), the type and concentrations of constituents in the wash water, and the recommended manure and wash water agronomic application rates.
 - b. The BMP plan must include a strategy to control and prevent storm water, wastewater, or standing water from coming in contact with manure, such that fly and other vector breeding conditions are eliminated to the extent feasible and practicable. The plan must also address proper housekeeping operations such as grading of low spots within the corrals to improve drainage and minimize water ponding, reduction in water usage in the barn area, and minimizing disposal of manure into retention ponds.
4. By no later than **October 22, 2010**, in accordance with the Manure Removal Plan, the Discharger must complete removal of all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds.
 5. By **November 17, 2010**, provide a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order, and how those actions have corrected the nuisance conditions at the N & M Dairy.

B. REPORTING REQUIREMENTS:

1. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to the Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility of activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information

submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:

Assistant Executive Officer
California Regional Water Quality Control Board
Lahontan Region - Victorville Office
14440 Civic Drive, Suite 200
Victorville, CA 92392
Attn: Grasim Pour-gasmen
Email: pghasemi@waterboards.ca.gov
Phone: (760) 241-6583

C. NOTIFICATIONS:

1. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action required by this Order.
2. **California Environmental Quality Act (CEQA) Compliance.** Issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code, section 21000 et seq.) pursuant to California Code of Regulations, Chapter 3, Title 14, section 15321 subdivision (a)(2). This action is also exempt from the provisions of CEQA in accordance with section 15061(b)(3) of Chapter 3, Title 14 of the California Code of Regulations because it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment.
3. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water Board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, state holiday, or furlough day, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at: <http://www.waterboards.ca.gov/publicnotices/petitions/waterquality> or will be provided upon request.

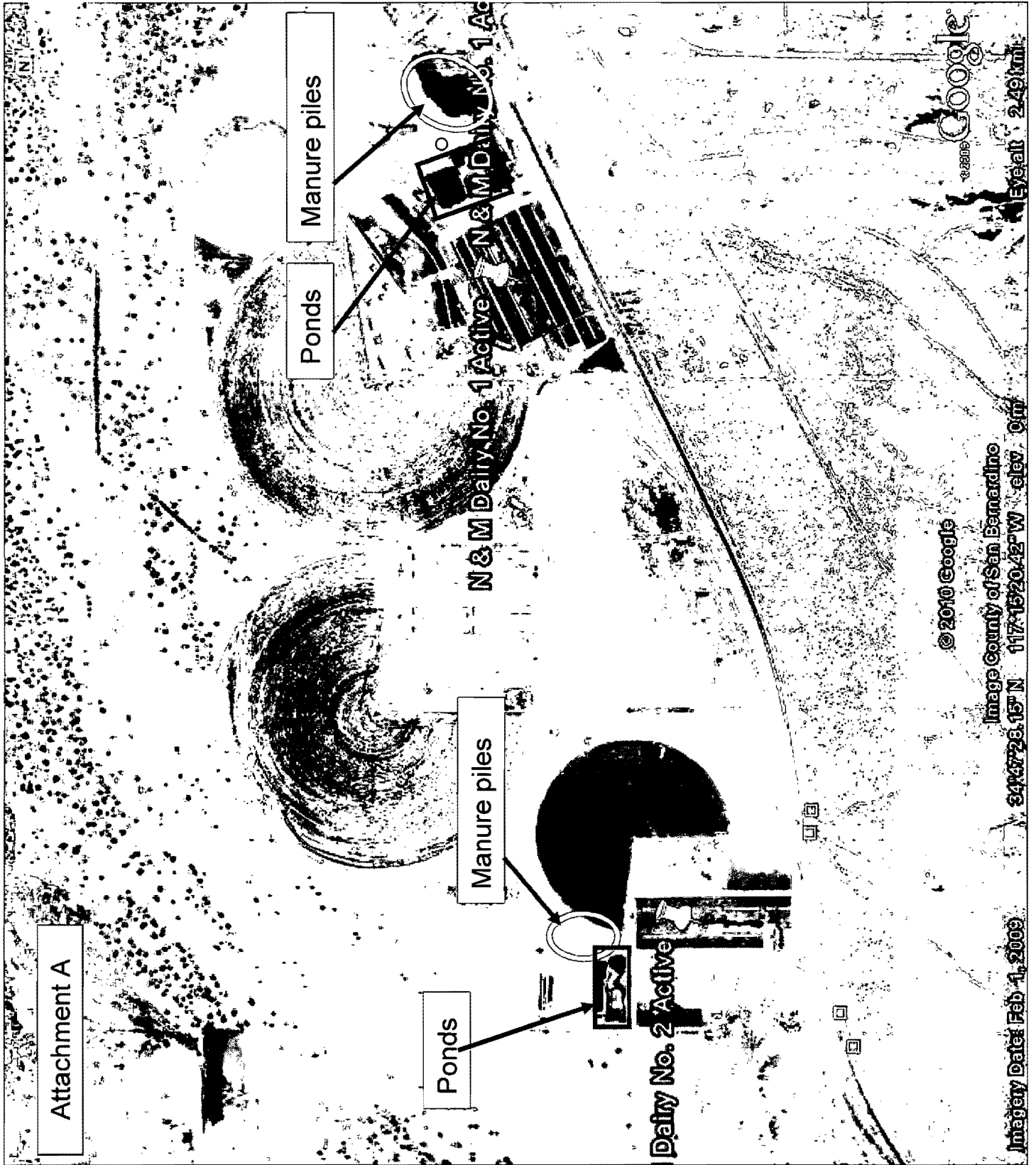
4. **Request for Extension of Time.** If for any reason, the Discharger is unable to perform any activity or submit any document in compliance with the schedule set forth herein, or in compliance with any work schedule submitted pursuant to this Order and approved by the Executive Officer, the Discharger may request, in writing, an extension of the time specified. The extension request shall include justification for the delay. An extension may be granted only by revision of or amendment to this Order.
5. **Enforcement Notification.** Failure to comply with the terms or conditions of this Cleanup and Abatement Order may result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to California Water Code section 13350 and/or section 13268, in an amount not to exceed \$5,000 for each day in which the violation occurs under Water Code section 13304 or 13350, or referral to the Attorney General of the State of California for injunctive relief or civil or criminal liability.

Ordered by: 
LAURI KEMPER, P.E.
ASSISTANT EXECUTIVE OFFICER

Dated: July 2, 2010

Attachments: A. Location Map
B. Water Code section 13267 Fact Sheet

GPG/rp BO2010/Ent/N&MDairyCAO



**Fact Sheet – Requirements for Submitting Technical Reports
Under Section 13267 of the California Water Code**

October 8, 2008

What does it mean when the regional water board requires a technical report?

Section 13267¹ of the California Water Code provides that "...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged...waste that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires".

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

Providing the required information in a technical report is not an admission of guilt or responsibility. However, the information provided can be used by the regional water board to clarify whether a given party has responsibility.

Are there limits to what the regional water board can ask for?

Yes. The information required must relate to an actual or suspected discharge of waste, and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The regional water board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension can be given for good cause. Your request should be submitted in writing, giving reasons. A request for a time extension should be made as soon as it is apparent that additional time will be needed and preferably before the due date for the information.

Are there penalties if I don't comply?

Depending on the situation, the regional water board can impose a fine of up to \$1,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties. A person who submits false information is guilty of a misdemeanor and may be fined as well.

What if I disagree with the 13267 requirement and the regional water board staff will not change the requirement and/or date to comply?

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of the Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Claim of Copyright or other Protection

Any and all reports and other documents submitted to the Regional Board pursuant to this request will need to be copied for some or all of the following reasons: 1) normal internal use of the document, including staff copies, record copies, copies for Board members and agenda packets, 2) any further proceedings of the Regional Board and the State Water Resources Control Board, 3) any court proceeding that may involve the document, and 4) any copies requested by members of the public pursuant to the Public Records Act or other legal proceeding.

If the discharger or its contractor claims any copyright or other protection, the submittal must include a notice, and the notice will accompany all documents copied for the reasons stated above. If copyright protection for a submitted document is claimed, failure to expressly grant permission for the copying stated above will render the document unusable for the Regional Board's purposes, and will result in the document being returned to the discharger as if the task had not been completed.

If I have more questions, who do I ask?

Requirements for technical reports normally indicate the name, telephone number, and email address of the regional water board staff person involved at the end of the letter.

¹ All code sections referenced herein can be found by going to www.leginfo.ca.gov. Copies of the regulations cited are available from the Regional Board upon request.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

AMENDED CLEANUP AND ABATEMENT ORDER NO. R6V-2010-0029-A1

WDID NO. 6B368010004

**REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE NUISANCE
CONDITIONS CAUSED BY EXCESSIVE MANURE AND STANDING MANURE
MIXED WITH WATER FROM DAIRY OPERATIONS AT N & M DAIRY**

_____ San Bernardino County _____

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Water Board) finds:

FINDINGS

A. Neil and Mary de Vries (hereafter the "Discharger") own and operate the N & M Dairy, a 904-acre dairy site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road in Helendale in San Bernardino County. The N & M Dairy site includes San Bernardino County Assessor's parcel numbers 466-041-01, 466-041-17, 466-041-20, 466-041-21, 466-041-22, 466-041-23, 466-091-15, 466-091-17, 466-091-26, 466-101-05, 466-101-06, and 466-111-02.

B. The Water Board issued Cleanup and Abatement Order (CAO) No. RV6-2010-0029 on July 2, 2010. The Order requires the Discharger to:

. . .

4. By no later than **October 22, 2010**, in accordance with the Manure Removal Plan, the Discharger must complete removal of all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds.

5. By **November 17, 2010**, provide a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order, and how those actions have corrected the nuisance conditions at the N & M Dairy.

D. On July 29, 2010, the Discharger requested the Water Board amend the due date for compliance requirement No. 4 of the CAO. The Discharger stated that the October 22, 2010 deadline set in the CAO for complete removal of all the excess manure is not reasonably achievable without catastrophic financial consequences.

- E. The Discharger stated they do not know the total tonnage of on-site manure, and cannot accurately predict how much time they will need for total removal of manure. The short-term manure removal operation may require 6 to 12 months.
- F. On July 28, 2010, Water Board staff inspected the Dairy. Excess manure piles stored in the corrals were removed from the active dairy site and the Discharger started removing stockpiles stored throughout the dairy property.
- G. On August 4, 2010, during a telephone conversation with Jim de Vries, Water Board staff requested additional information in the form of a monthly manure removal report for the months of August and September in order to justify the length of time extension needed. The Dairy has submitted logs of offsite manure removal for the month of August and September showing that it is removing an average of 85 tons (three to four truck loads) of manure per day approximately five days a week for a total of 425 tons per week.
- H. The Dairy has approximately 4300 cows generating approximately 38 to 40 tons of manure daily in addition to the unknown volume of manure stockpiles stored on several locations within the Dairy and manure from the retention ponds.
- I. The Dairy has large volumes of manure that is stored on three separate areas within the Dairy. The Discharger must estimate the volume of manure that has to be removed from the Dairy and submit the information with the first monthly report required by this Order.
- J. The Dairy will need additional time to remove excess manure piles.
- K. It is appropriate to extend the due date for the complete manure removal report and the final report ordered by the CAO.
- L. This Order will amend the compliance dates associated with the Order No. 4 and No. 5 above, and as specified in CAO No. 6RV-2010-0029.

THEREFORE, IT IS HEREBY ORDERED that Order No. 4 and No. 5 of CAO R6V-2010-0029 be amended by this Order as follows.

- 4. By **October 19, 2011**, the Discharger must complete removal of all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds.
- 5. By **November 15, 2011**, the Discharger must provide a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order, and how those actions have corrected the nuisance conditions at the N & M Dairy.

IT IS FURTHER ORDERED that, pursuant to California Water Code section 13267 and section 13304, the Discharger shall take the following actions:

1. The Discharger should remove as many truck loads of manure per day from the site as possible. In order to meet the new deadlines set in this Order, the Dairy must remove more manure from the site than it has been removing during August and September 2010, but at no time shall the minimum manure removal be less than 425 tons per week.
2. The Discharger must submit a monthly manure removal progress report by the third day of each month starting **January 3, 2011** until work is completed. The report should include pictures taken during the previous month showing manure cleanup during that month, percentage of total excess manure removed during the month, the location where excess manure is exported, date, name and address of the recipient, and the total dry weight (tons) of manure that is exported. The Discharger should keep an accurate log of daily manure removal and transport. This log should be available at the Dairy for Water Board staff's inspection.
3. **By June 7, 2011**, the Discharger must submit a progress report that will include all clean up, improvements, the amount of manure removed from the Dairy, the percentage of manure removed, and percentage of work completed per this Order. The report shall include a calculation of the remaining truckloads and a schedule to complete removal by October 19, 2011.

Enclosed for your information is a fact sheet discussing the requirements for submitting or filing a petition on a technical or monitoring report related to Water Code section 13267.

B. REPORTING REQUIREMENTS

1. **Signatory Requirements.** All reports required under this Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger, and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility of activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or

persons who manage the system. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:

Assistant Executive Officer
California Regional Water Quality Control Board
Lahontan Region - Victorville Office
14440 Civic Drive, Suite 200
Victorville, CA 92392
Attn: Ghasem Pour-ghasemi
Email: gpourghasemi@waterboards.ca.gov
Phone: (760) 241-6583

C. **NOTIFICATIONS**

1. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action required by this Order.
2. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water Board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, state holiday, or furlough day, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at:
<http://www.waterboards.ca.gov/publicnotices/petitions/waterquality> or will be provided upon request.
3. **Enforcement Notification.** Failure to comply with the terms or conditions of this Cleanup and Abatement Order may result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to California Water Code section 13350 and/or section 13268, in an amount not to exceed \$5,000 for each day in which the violation occurs under Water Code section 13304 or 13350, or referral to the Attorney General of the State of California for injunctive relief or civil or criminal liability.

Ordered by: Lauri Kemper
LAURI KEMPER, P.E.
ASSISTANT EXECUTIVE OFFICER

Dated: December 2, 2010

Enclosure: Water Code Section 13267 Fact Sheet

cc: Jim de Vries

GPG/rc/CAO/N & M CAO/N & M Dairy amended CAO

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

AMENDED CLEANUP AND ABATEMENT ORDER NO. R6V-2010-0029-A2

WDID NO. 6B368010004

**REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE NUISANCE
CONDITIONS CAUSED BY EXCESSIVE MANURE AND STANDING MANURE
MIXED WITH WATER FROM DAIRY OPERATIONS AT N & M DAIRY**

_____ San Bernardino County _____

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Water Board) finds:

FINDINGS

- A. Neil and Mary de Vries (hereafter the "Discharger") own and operate the N & M Dairy, a 904-acre dairy site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road in Helendale in San Bernardino County. The N & M Dairy site includes San Bernardino County Assessor's parcel numbers 466-041-01, 466-041-17, 466-041-20, 466-041-21, 466-041-22, 466-041-23, 466-091-15, 466-091-17, 466-091-26, 466-101-05, 466-101-06, and 466-111-02.
- B. The Water Board issued Cleanup and Abatement Order (CAO) No. RV6-2010-0029 on July 2, 2010.
- C. The Water Board issued Amended CAO No. RV6-2010-0029-A1 on December 2, 2010. The Order requires the Discharger to:
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 - 4. By **October 19, 2011**, the Discharger must complete removal of all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds.
 - 5. By **November 15, 2011**, the Discharger must provide a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order, and how those actions have corrected the nuisance conditions at the N & M Dairy.
- D. On October 12, 2011, the Discharger requested the Water Board amend the due date for compliance requirement No. 4 of the amended CAO. The Discharger

stated that the October 19, 2011 deadline set in CAO R6V-2010-0029-A1 for complete removal of all the excess manure is not achievable.

- E. On August 25, 2011, Water Board met with the Discharger in Victorville office. The Discharger stated they are moving as much manure from the site as they possibly can, but will not be able to remove all manure by October 19, 2011. I agreed to extend the deadline as long as the rate of manure removal maintained at a minimum of 2,000 tons per month.
- F. On October 12, 2011, the Discharger submitted a time extension request for manure removal. The September 2011 monthly report indicated that the Discharger removed 2,100 tons of manure from the Dairy. Total manure removal from the Dairy since August 2010 is 23,717 tons.
- H. The Discharger has approximately 4300 cows generating approximately 38 to 40 tons of manure daily in addition to remaining manure stockpiles stored on several locations within the Dairy and manure from the retention ponds.
- I. The Discharger will need additional time to remove excess manure piles.
- J. It is appropriate to extend the due date for the complete manure removal report and the final report ordered by CAO R6V-2010-0029-A1.
- K. This Order will amend the compliance dates associated with the Order No. 4 and No. 5 above, and as specified in amended CAO No. 6RV-2010-0029-A1.

THEREFORE, IT IS HEREBY ORDERED that Order No. 4 and No. 5 of CAO R6V-2010-0029-A1 be amended by this Order as follows.

- 4. By **January 17, 2012**, the Discharger must complete removal of all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds.
- 5. By **February 22, 2012**, the Discharger must provide a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order, and how those actions have corrected the nuisance conditions at the N & M Dairy.

IT IS FURTHER ORDERED that, pursuant to California Water Code section 13267 and section 13304, the Discharger shall take the following actions:

- 1. The Discharger should remove as many truck loads of manure per day from the site as possible. In order to meet the new deadlines set in this Order, the Dairy must remove as much manure as possible from the site during good weather condition, but at no time shall the minimum manure removal be less than 2,000 tons per month.

2. The Discharger must submit a monthly manure removal progress report by the third day of each month starting **January 3, 2012** until work is completed. The report should include pictures taken during the previous month showing manure cleanup during that month, percentage of total excess manure removed during the month, the location where excess manure is exported, date, name and address of the recipient, and the total dry weight (tons) of manure that is exported. The Discharger should keep an accurate log of daily manure removal and transport. This log should be available at the Dairy for Water Board staff's inspection.

Enclosed for your information is a fact sheet discussing the requirements for submitting or filing a petition on a technical or monitoring report related to Water Code section 13267.

REPORTING REQUIREMENTS

1. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to the Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility of activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

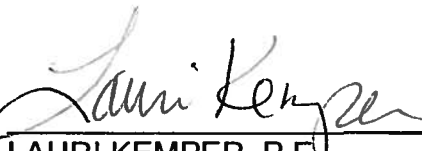
3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:

California Regional Water Quality Control Board
Lahontan Region - Victorville Office
14440 Civic Drive, Suite 200
Victorville, CA 92392
Attn: Ghasem Pour-ghasemi
Email: gpourghasemi@waterboards.ca.gov
Phone: (760) 241-6583

Notifications:

4. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action required by this Order.
5. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water Board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, or state holiday, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at:
<http://www.waterboards.ca.gov/publicnotices/petitions/waterquality> or will be provided upon request.
6. **Enforcement Notification.** Failure to comply with the terms or conditions of this Cleanup and Abatement Order may result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to California Water Code section 13350 and/or section 13268, in an amount not to exceed \$5,000 for each day in which the violation occurs under Water Code section 13304 or 13350, or referral to the Attorney General of the State of California for injunctive relief or civil or criminal liability.

Ordered by:


LAURI KEMPER, P.E.
ASSISTANT EXECUTIVE OFFICER

Dated:



Enclosure: Water Code Section 13267 Fact Sheet

cc: Jim de Vries
Robert Hansen, Altaem, Inc

**Fact Sheet – Requirements for Submitting Technical Reports
Under Section 13267 of the California Water Code**

October 8, 2008

What does it mean when the regional water board requires a technical report?

Section 13267¹ of the California Water Code provides that "...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged...waste that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires".

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

Providing the required information in a technical report is not an admission of guilt or responsibility. However, the information provided can be used by the regional water board to clarify whether a given party has responsibility.

Are there limits to what the regional water board can ask for?

Yes. The information required must relate to an actual or suspected discharge of waste, and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The regional water board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension can be given for good cause. Your request should be submitted in writing, giving reasons. A request for a time extension should be made as soon as it is apparent that additional time will be needed and preferably before the due date for the information.

Are there penalties if I don't comply?

Depending on the situation, the regional water board can impose a fine of up to \$1,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties. A person who submits false information is guilty of a misdemeanor and may be fined as well.

What if I disagree with the 13267 requirement and the regional water board staff will not change the requirement and/or date to comply?

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of the Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Claim of Copyright or other Protection

Any and all reports and other documents submitted to the Regional Board pursuant to this request will need to be copied for some or all of the following reasons: 1) normal internal use of the document, including staff copies, record copies, copies for Board members and agenda packets, 2) any further proceedings of the Regional Board and the State Water Resources Control Board, 3) any court proceeding that may involve the document, and 4) any copies requested by members of the public pursuant to the Public Records Act or other legal proceeding.

If the discharger or its contractor claims any copyright or other protection, the submittal must include a notice, and the notice will accompany all documents copied for the reasons stated above. If copyright protection for a submitted document is claimed, failure to expressly grant permission for the copying stated above will render the document unusable for the Regional Board's purposes, and will result in the document being returned to the discharger as if the task had not been completed.

If I have more questions, who do I ask?

Requirements for technical reports normally indicate the name, telephone number, and email address of the regional water board staff person involved at the end of the letter.

¹ All code sections referenced herein can be found by going to www.leginfo.ca.gov. Copies of the regulations cited are available from the Regional Board upon request.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

CLEANUP AND ABATEMENT ORDER NO. R6V-2011-0055

WDID NO. 6B368010004

**REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE EFFECTS OF
DISCHARGING NITRATE CONTAMINANTS TO GROUNDWATERS OF THE MOJAVE
RIVER HYDROLOGIC UNIT**

_____San Bernardino County_____

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Water Board) finds that:

FINDINGS

1. Neil and Mary de Vries (hereafter the "Discharger") own and operate the N & M Dairy, a 904-acre dairy site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road in Helendale in San Bernardino County. The N & M Dairy site includes San Bernardino County Assessor's parcel numbers 466-041-01, 466-041-17, 466-041-20, 466-041-21, 466-041-22, 466-041-23, 466-091-15, 466-091-17, 466-091-26, 466-101-05, 466-101-06, and 466-111-02.
2. Waste Discharge Requirements (WDRs) contained in Water Board Order No. 6-01-38 (2001 Order) regulate waste discharges from the N & M Dairy. The 2001 Order, in part, requires the following:
 - a. Discharge Specification I.B.states:

"The discharge shall not cause a violation of any applicable water quality standards for receiving water adopted by the Regional Board or the SWRCB. The discharge shall not cause the presence of the following substances or conditions in ground or surface waters or wetlands of the Mojave Hydrologic Unit."
 - b. Discharge Specification I.B.2 states

"Ground water shall not contain concentrations of chemical constituents in excess of the maximum contaminant level (MCL) or secondary maximum contaminant level (SMCL) based upon drinking water standards specified in the following provisions of Title 22 of the California Code of Regulations:

 - 1) Table 64431-A of Section 64431 (Inorganic Chemicals);
 - 2) Table 64431-B of Section 64431 (Fluoride);
 - 3) Table 6444-A of Section 64444 (Organic Chemicals);
 - 4) Table 64449-A of Section 64449 (SMCLs - Consumer Acceptance Limits);
and
 - 5) Table 64449-B of Section 64449 (SMCLs - Ranges)."

c. Discharge Specification I.C.4.c.states:

"The discharge shall not cause a pollution as defined in Section 13050 of the California Water Code, or a threatened pollution."

d. Discharge Specification I.C.4.d. states:

"Neither the treatment nor the discharge shall cause a nuisance as defined in Section 13050 of the California Water Code."

3. The 2001 Order contains a Monitoring and Reporting Program No. 01-38 (2001 MRP). The 2001 MRP requires the Discharger to "submit semiannual monitoring reports to the Regional Board by January 15th and July 15th each year. The monitoring and reporting periods are from July 1 to December 31 and from January 1 to June 30 of each year."
4. Between January 7, 2010 and March 9, 2010 Water Board staff conducted water sampling from the residential wells in the vicinity of several dairies that included four residential supply wells upgradient and downgradient of the N & M Dairy. The sampling results for nitrate as nitrogen (N) concentrations for the two upgradient residential wells were 0.23 mg/L and 1.6 mg/L and the two downgradient residential wells were 18 mg/L.
5. On May 10, 2010, Water Board staff inspected N & M Dairy and neighboring properties and made several observations indicating that waste management and disposal practices led to ongoing nuisance conditions at the dairy. Some of the corrals at the N & M Dairy contained piles of manure, manure was in contact with standing water, manure was stockpiled at the southeast corner and western side of the N & M Dairy property, and N & M Dairy's wastewater retention ponds contained large amounts of manure. These conditions created an odor problem and habitat for vectors such as flies that created a condition of nuisance.
6. In response to this inspection, the Water Board issued a Cleanup and Abatement Order R6V-2010-0029 on July 2, 2010 (2010 CAO) to address the nuisance conditions on the dairy. The 2010 Order required the Discharger to remove all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds at N & M Dairy. As part of the 2010 CAO, the Discharger was required to submit a Manure Removal Plan by July 21, 2010, begin implementation of the Manure Removal Plan by August 1, 2010, submit a Nutrient Management Plan by October 7, 2010, complete manure removal by October 22, 2010, and submit a Final Report by November 17, 2010.

7. On October 21, 2010, the Water Board issued Investigative Order No. R6V-2010-0044 (2010 Investigative Order) in response to groundwater sampling conducted on January 7, 2010 and March 9, 2010 at two domestic supply wells downgradient from N & M Dairy. Testing of these wells showed that they exceeded the MCL for nitrate, and exceeded recommended SMCL for total dissolved solids (TDS). The 2010 Investigative Order required N & M Dairy to conduct additional water sampling of the downgradient and cross-gradient residential wells. The 2010 Investigative Order required the discharger to submit a workplan for well sampling locations by December 1, 2010, file an Interim Report by March 15, 2011 and a Final Report by June 15, 2011.
8. On December 2, 2010, the Water Board issued Amended Cleanup and Abatement Order R6V-2010-0029-A1 (2010 Amended CAO). This document allowed for an extension of the timeline for compliance with the Manure Removal Plan established in the 2010 CAO. The 2010 Amended CAO requires the discharger to complete manure removal by October 19, 2011, and submit a final report of manure removal by November 12, 2011.
9. On July 7, 2011, Water Board staff conducted an inspection of the dairy. Inspectors observed inadequate wash water retention ponds, poor drainage and water ponding in the corrals, inadequate storm retention basins, wash water seeping out from the embankment of one of the ponds on the southeast area of the dairy, overflow of wash water from the ponds to drainage ditches, and disposal of wash water within the floodplain of the Mojave River in an area within 300 feet of the river.

RECENT GROUNDWATER MONITORING RESULTS

10. Recent testing of groundwater on and around the dairy has shown that nitrate and TDS containing wastes have polluted groundwater beyond the boundaries of the dairy and violated requirements stated in Finding No. 2 above. The semiannual monitoring report received on January 18, 2011, indicates that the results for groundwater samples collected from monitoring wells within the dairy exceed the MCL for nitrate as N and SMCL for TDS and other constituents (see Finding No. 14 for limits). The Final Report Neighboring Domestic Supply Well Sampling, dated June 4, 2011 (Report), submitted by the Discharger to the Water Board on June 7, 2011, details the presence of nitrate in groundwater downgradient of the dairy. The Report also identified nitrate pollution in groundwater originating at the dairy. The results presented in the Report indicate that the nitrate plume originating at the dairy has migrated downgradient affecting individual supply wells in the adjacent neighborhood. The sampling results confirmed nitrate and TDS in the groundwater downgradient and cross-gradient are exceeding the MCL and SMCL, respectively.
11. The Discharger caused, allowed or threatened to cause nitrate and TDS-containing wastes to be discharged to waters of the State underlying and downgradient of the N&M Dairy property.

12. California Water Code section 13050, subdivision (l) defines "pollution" as: *an alteration of the water quality to a degree that unreasonably affects either beneficial uses or facilities that serve these beneficial uses.*

AFFECTED BENEFICIAL USES

13. Pursuant to Chapter 2 of the Water Quality Control Plan, Lahontan Region (Basin Plan), groundwater in the Mojave Hydrologic Unit underlying the dairy and surrounding areas include the following present and potential beneficial uses: domestic and municipal water supply, agricultural water supply, industrial water supply, freshwater replenishment, and aquaculture. Residences downgradient of the dairy rely on the groundwater of Mojave Hydrologic Unit for private domestic drinking supply wells for water supply.
14. The 1995 Basin Plan established water quality objectives (WQOs) for the protection of beneficial uses. Ground waters designated as MUN shall not contain concentrations of chemical constituents in excess of the MCL or SMCL based upon drinking water standards specified in Title 22 of the California Code of Regulations (Basin Plan, Section 5.1, pages 10-11).

WQOs include the following MCL established by the California Department of Public Health as a safe level to protect public drinking water supplies:

Nitrate as N	10 mg/L
Nitrate as NO ₃	45 mg/L

The following SMCLs are established by the California Department of Public Health as consumer acceptance contaminant levels (Title 22, section 64449 (a)):

Secondary Maximum Contaminant Levels:

Iron	0.3 mg/L
Manganese	0.05 mg/L

Secondary Maximum Contaminant Level Ranges

Constituent	Recommended	Upper	Short Term
Total Dissolved Solids (mg/L)	500	1000	1500
Chloride	250	500	600

15. Discharges from N & M Dairy have caused groundwater beneath and immediately downgradient of the dairy field to exceed the drinking water standard for nitrate as N (10 mg/L) and SMCL for TDS (500 mg/L). Groundwater monitoring data indicate approximately eight (8) of the downgradient residential wells contain water with nitrate as N concentrations exceeding the drinking water MCL of 10 mg/L and eleven (11) of the downgradient residential wells contain water with TDS

concentrations exceeding the SMCL of 500 mg/L. The MCLs and SMCLs were established by the California Department of Health Services pursuant to the California Safe Drinking Water Act and is found in Title 22 of the California Code of Regulations (CCR), Division 4, Chapter 15, Domestic Water Quality Monitoring.

16. Because the discharges have caused or contributed to groundwater beneath and downgradient of the N and M Dairy to exceed the drinking water standard for nitrate as N (10 mg/L) and TDS, the affected groundwater is no longer useable for drinking or domestic supply purposes. This alteration is unreasonable because the aquifer is currently used for drinking water and the portion of the aquifer affected by the discharge is no longer suitable for this beneficial use. The discharges have, therefore, unreasonably affected the water for municipal and domestic supply beneficial use and caused a condition of pollution.

AUTHORITY - LEGAL REQUIREMENTS

17. Water Code section 13304, subdivision (a) states:

Any person ... who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by ... a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup and abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

18. Pursuant to Water Code section 13304, subdivision (f):

Replacement water provided pursuant to subdivision (a) shall meet all applicable federal, state, and local drinking water standards, and shall have comparable quality to that pumped by the public water system or private well owner prior to the discharge of waste.

19. State drinking water standards promulgated in the California Code of Regulations (22 CCR §64449 et. seq.) require community water systems to comply with both MCLs and SMCLs. A Regional Board may order replacement water for private domestic wells that have been impacted by a discharger's pollution or nuisance. Discharges that exceed either the MCLs or SMCLs constitute an alteration of the

water quality to a degree that unreasonably affects either beneficial uses or facilities that serve these beneficial uses.

20. The conditions described in Findings 4, 5, 9 and 10 constitute violations of WDRs and the Basin Plan. The conditions described in these Findings also indicate that the Discharger has caused or permitted waste to be discharged or deposited where it has or will be discharged into waters of the state. The Discharger and N & M Dairy are therefore subject to the Water Boards' authority as described in Water Code section 13304.

21. Pursuant to Water Code section 13267, subdivision (b):

In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the reports, and shall identify the evidence that supports requiring that person to provide the reports.

22. This Order requires monitoring, work plans and reports pursuant to Water Code section 13267, subdivision (b). The work plans and monitoring required by this Order are necessary to design a water replacement plan and implementation schedule and to determine compliance with this Order.
23. Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes or to oversee cleanup of such waste, abatement of the effect thereof, or other remedial action pursuant to this Order.
24. The issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provision of the California Environmental Quality Act (Public Resources Code, section 21000 et seq.), pursuant to California Code of Regulations (CCR), title 14, section 15321, subdivision (a)(2). The implementation of this Order is also an action to assure the restoration of the environment and is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, section 21000 et seq.), in accordance with CCR title 14, sections 15308 and 15330.

25. Any person affected by this action of the Water Board may petition the State Water Resources Control Board (State Board) to review the action in accordance with Water Code section 13320 and Title 23, CCR, section 2050 through 2068. The State Board, office of Chief Counsel, must receive the petition within 30 days of this Order.

THEREFORE, IT IS HEREBY ORDERED, that pursuant to Water Code sections 13267 and 13304, that the Discharger and N & M Dairy shall abate the effects of waste discharges at or near the northern reclamation field as follows:

A. ORDERS:

1. By **August, 15, 2011**, supply interim uninterrupted replacement drinking water service (ie., bottled water or equivalent) for consumption and cooking, to residences served by private domestic wells within the Affected Area (see Attachment A) in which nitrate as N has been detected at concentrations at or exceeding the MCL, or where concentrations of TDS exceed the SMCL based on constituent concentration information generated from monitoring data submitted on June 7, 2011, and any subsequent monitoring data submitted to the Water Board. Furthermore, the Discharger and N & M Dairy shall supply interim uninterrupted replacement drinking water service (ie., bottled water or equivalent), to any additional residences in the Affected Area served by private domestic wells affected within 48 hours of determining that the private well at the residence exhibits a nitrate as N concentration of 10 mg/L or greater for the first time or the concentration of total dissolved solids exceeds the SMCL for the first time.

The Affected Area is included in Attachment A as defined by the following boundaries in the USGS Wild Crossing and Hodge 7.5-minute quadrangles: The western edge begins 0.2 miles west of the intersection of Indian Trails road and Lords road. The eastern boundary extends from a point 1.4 miles east of the intersection of Hodge Road and National Trails Highway. The northern boundary follows the approximate center line of the Mojave River north of National Trails highway. The southern boundary is approximately 0.5 miles south of National Trails Highway, and runs parallel to National Trails highway

2. By **August 22, 2011**, submit a technical report to the Water Board listing all residences that have been provided interim uninterrupted replacement drinking water service. The report must include the method that was implemented to provide interim uninterrupted replacement drinking water service, including ongoing maintenance of this service. If a residence should have been provided interim uninterrupted replacement drinking water service based on the requirement in Order Paragraph No. 1 above and has not been provided interim uninterrupted replacement drinking water service, the technical report must include actions the Discharger and N & M Dairy have taken and will continue to take to provide interim uninterrupted replacement drinking water service to the residence. If the reason the Discharger and N & M Dairy have failed to provide interim uninterrupted

replacement drinking water service is the refusal of the occupants of the residence to accept such service, the report must include a statement from the occupants of this refusal.

3. By **August 22, 2011**, Provide notification to all parcel owners and residents within the Affected Area shown on Attachment A that nitrate as N concentrations in groundwater may exceed the MCL of 10 mg/L or where TDS levels exceed the SMCL (500 mg/L). The Discharger and N & M Dairy shall also include notification that their residential wells will be sampled on a quarterly basis, beginning September 8, 2011.
4. By **September 20, 2011**, complete the next quarterly sampling of all private domestic wells within the Affected Area and submit samples with chain of custody documentation to a California certified laboratory for nitrate, total dissolved solids, general minerals and bacteria analyses. Samples from these wells must be collected quarterly thereafter (December, March, June, and September).
5. By **October 14, 2011 and quarterly thereafter (January 15, April 15, July 15 and October 15) but no later than 21 days after completing the well sampling required in Order Paragraph No. 4 above**, submit to the Water Board California-certified laboratory results and other quality assurance/control documentation from the first quarterly sampling event (and subsequent quarterly sampling events) for all private domestic wells sampled and a list of residences with nitrate as N concentrations at or exceeding 10 mg/L in their supply water that will receive bottled water or equivalent, or wells that exceed 9 mg/L where the discharger has opted to provide bottled water (using Method Detection Limit of 1 mg/L or better). If the results of this monitoring identify a well that exhibits a nitrate as N concentration at or exceeding 10 mg/L for the first time, the Discharger must notify the Water Board of this information within 48 hours of the Dairy receiving the monitoring information.
6. The Discharger is required to perform bi-monthly testing of wells within the Affected Area where monitoring yields results at or exceeding 9 mg/L but below 10 mg/L, where replacement drinking water has not been issued. This requirement is ordered to ensure that water at or above the 10 mg/L MCL is not used for domestic water supply. Data from wells sampled in the Affected Area indicates that nitrate as N levels may fluctuate between quarterly sampling events. Domestic drinking water supply wells having nitrate as N levels below the MCL during one sampling event may exhibit levels above the MCL in a subsequent sampling event. Wells that test at or exceeding levels of 9 mg/L threaten to exceed the MCL. Bi-monthly testing is required until the nitrate as N levels drop below 9 mg/L for three sampling events, or until replacement water is provided.

Alternatively, the Discharger may elect to provide replacement water to residences in the Affected Area where monitoring yields results at or exceeding 9 mg/L but below 10 mg/L for nitrate as N instead of performing increased bi-monthly testing. The Discharger must provide notification to the Water Board of their decision to

provide replacement water.

7. Uninterrupted replacement water service may cease if the Discharger demonstrates that drinking water in the Affected Area meets the MCL for nitrate as N and SMCL for TDS. In order to establish compliance with the MCL for nitrate as N and SMCL for TDS, the Discharger shall submit documentation in the form of testing results that demonstrate that the groundwater in the affected well is below the 10 mg/L MCL for nitrate and below 500 mg/L SMCL for TDS for four consecutive quarterly monitoring periods.
8. The Discharger shall be liable, pursuant to Water Code section 13304, to the Water Board for all reasonable costs incurred by the Water Board to investigate unauthorized discharges of waste, or to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, pursuant to this Order. The Discharger shall reimburse the Water Board for all reasonable costs associated with site investigation, oversight, and cleanup. Failure to pay any invoice for the Water Board's investigation and oversight costs within the time stated in the invoice (or within thirty days after the date of invoice, if the invoice does not set forth a due date) shall be considered a violation of this Order. If the Property is enrolled in a State Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program.
9. All technical, monitoring plans, and reports required in conjunction with this Order are required pursuant to Water Code section 13267 and shall include a statement by the Discharger, or an authorized representative of the Discharger, certifying (under penalty of perjury in conformance with the laws of the State of California) that the work plan and/or report is true, complete, and accurate. Hydrogeologic reports and plans shall be prepared or directly supervised by a Professional Geologist or Professional Civil Engineer registered in California and signed and stamped to that effect.
10. This Order does not limit the authority of the Water Board to institute additional enforcement actions or to require additional investigation and cleanup of the site consistent with the Water Code. This Order may be revised by the Assistant Executive Officer as additional information becomes available. Failure to comply with the terms or conditions of this Cleanup and Abatement Order will result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to Water Code sections 13350 and 13268 or referral to the Attorney General of the State of California for civil enforcement.

11. This Order does not affect the Discharger's obligation to comply with the 2010 Cleanup and Abatement Order (R6V-2010-0029), the 2010 Investigative Order (R6V-2010-0044) or the 2010 Amended CAO (R6V-2010-0029-A1). The requirements and legal enforceability of these Orders are not superseded or affected upon issuance of this Order.

B. REPORTING REQUIREMENTS:

1. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to the Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility of activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:


Assistant Executive Officer
California Regional Water Quality Control Board
Lahontan Region - Victorville Office
14440 Civic Drive, Suite 200
Victorville, CA 92392
Attn: Ghasem Pour-ghasemi
Email: gpourghasemi@waterboards.ca.gov
Phone: (760) 241-6583

C. NOTIFICATIONS:

1. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action required by this Order.
2. **California Environmental Quality Act (CEQA) Compliance.** Issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code, section 21000 et seq.) pursuant to California Code of Regulations, Chapter 3, Title 14, section 15321 subdivision (a)(2). This action is also exempt from the provisions of CEQA in accordance with section 15061(b)(3) of Chapter 3, Title 14 of the California Code of Regulations because it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment.
3. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water Board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, state holiday, or furlough day, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at: <http://www.waterboards.ca.gov/publicnotices/petitions/waterquality> or will be provided upon request.
4. **Request for Extension of Time.** If for any reason, the Discharger is unable to perform any activity or submit any document in compliance with the schedule set forth herein, or in compliance with any work schedule submitted pursuant to this Order and approved by the Assistant Executive Officer, the Discharger may request, in writing, an extension of the time specified. The extension request shall include justification for the delay. An extension may be granted only by revision of or amendment to this Order.

5. **Enforcement Notification.** Failure to comply with the terms or conditions of this Cleanup and Abatement Order may result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to California Water Code section 13350 and/or section 13268, in an amount not to exceed \$5,000 for each day in which the violation occurs under Water Code section 13304 or 13350, or referral to the Attorney General of the State of California for injunctive relief or civil or criminal liability.

Ordered by:



Dated:

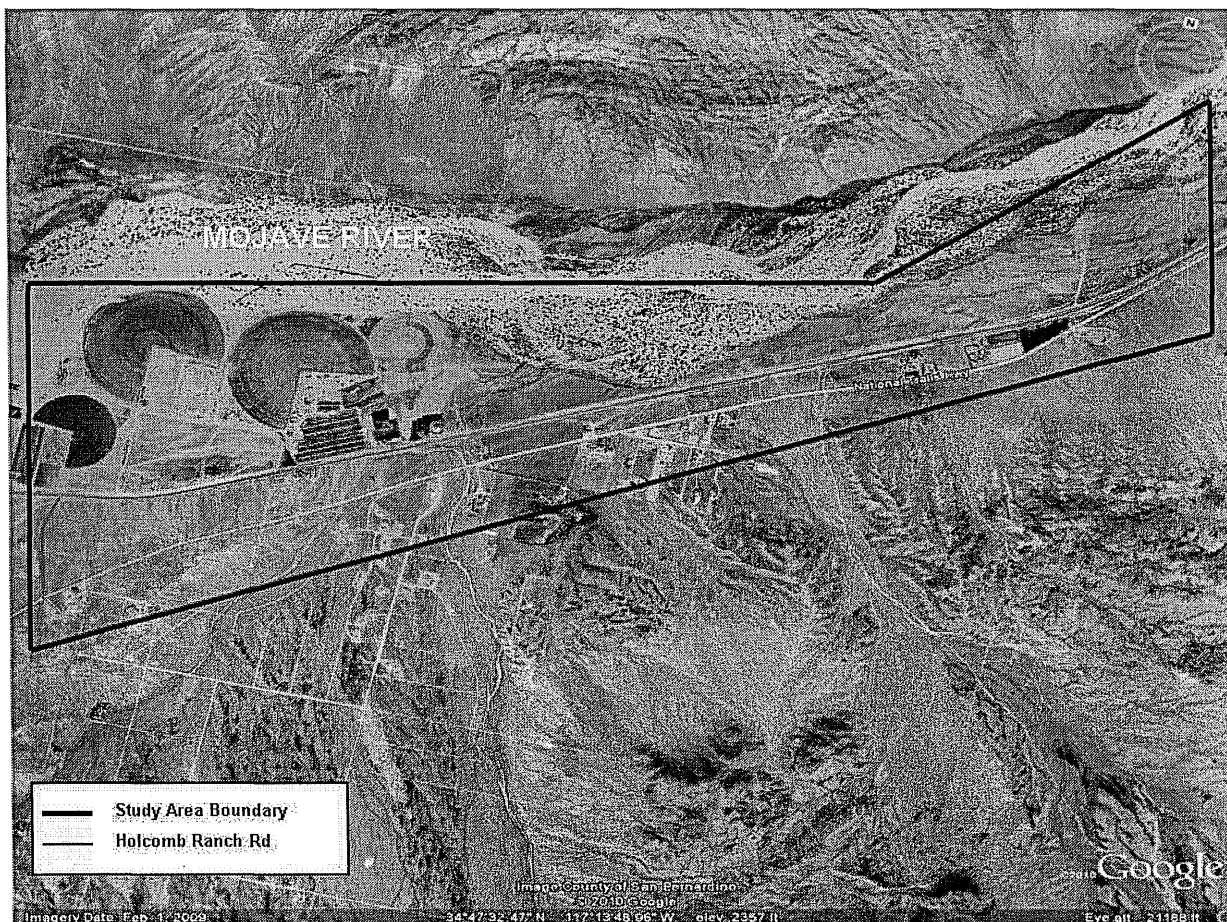
AUGUST 2, 2011

for

LAURI KEMPER
ASSISTANT EXECUTIVE OFFICER

Attachments:

- A. Attachment A
- B. Water Code section 13267 Fact Sheet



ATTACHMENT A

**Fact Sheet – Requirements for Submitting Technical Reports
Under Section 13267 of the California Water Code**

October 8, 2008

What does it mean when the regional water board requires a technical report?

Section 13267¹ of the California Water Code provides that "...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged...waste that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires".

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

Providing the required information in a technical report is not an admission of guilt or responsibility. However, the information provided can be used by the regional water board to clarify whether a given party has responsibility.

Are there limits to what the regional water board can ask for?

Yes. The information required must relate to an actual or suspected discharge of waste, and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The regional water board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension can be given for good cause. Your request should be submitted in writing, giving reasons. A request for a time extension should be made as soon as it is apparent that additional time will be needed and preferably before the due date for the information.

Are there penalties if I don't comply?

Depending on the situation, the regional water board can impose a fine of up to \$1,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties. A person who submits false information is guilty of a misdemeanor and may be fined as well.

What if I disagree with the 13267 requirement and the regional water board staff will not change the requirement and/or date to comply?

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of the Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Claim of Copyright or other Protection

Any and all reports and other documents submitted to the Regional Board pursuant to this request will need to be copied for some or all of the following reasons: 1) normal internal use of the document, including staff copies, record copies, copies for Board members and agenda packets, 2) any further proceedings of the Regional Board and the State Water Resources Control Board, 3) any court proceeding that may involve the document, and 4) any copies requested by members of the public pursuant to the Public Records Act or other legal proceeding.

If the discharger or its contractor claims any copyright or other protection, the submittal must include a notice, and the notice will accompany all documents copied for the reasons stated above. If copyright protection for a submitted document is claimed, failure to expressly grant permission for the copying stated above will render the document unusable for the Regional Board's purposes, and will result in the document being returned to the discharger as if the task had not been completed.

If I have more questions, who do I ask?

Requirements for technical reports normally indicate the name, telephone number, and email address of the regional water board staff person involved at the end of the letter.

¹ All code sections referenced herein can be found by going to www.leginfo.ca.gov. Copies of the regulations cited are available from the Regional Board upon request.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

CLEANUP AND ABATEMENT ORDER NO. R6V-2011-0055

WDID NO. 6B368010004

**REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE EFFECTS OF
DISCHARGING NITRATE CONTAMINANTS TO GROUNDWATERS OF THE MOJAVE
RIVER HYDROLOGIC UNIT**

_____San Bernardino County_____

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Water Board) finds that:

FINDINGS

1. Neil and Mary de Vries (hereafter the "Discharger") own and operate the N & M Dairy, a 904-acre dairy site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road in Helendale in San Bernardino County. The N & M Dairy site includes San Bernardino County Assessor's parcel numbers 466-041-01, 466-041-17, 466-041-20, 466-041-21, 466-041-22, 466-041-23, 466-091-15, 466-091-17, 466-091-26, 466-101-05, 466-101-06, and 466-111-02.
2. Waste Discharge Requirements (WDRs) contained in Water Board Order No. 6-01-38 (2001 Order) regulate waste discharges from the N & M Dairy. The 2001 Order, in part, requires the following:
 - a. Discharge Specification I.B.states:

"The discharge shall not cause a violation of any applicable water quality standards for receiving water adopted by the Regional Board or the SWRCB. The discharge shall not cause the presence of the following substances or conditions in ground or surface waters or wetlands of the Mojave Hydrologic Unit."
 - b. Discharge Specification I.B.2 states

"Ground water shall not contain concentrations of chemical constituents in excess of the maximum contaminant level (MCL) or secondary maximum contaminant level (SMCL) based upon drinking water standards specified in the following provisions of Title 22 of the California Code of Regulations:

 - 1) Table 64431-A of Section 64431 (Inorganic Chemicals);
 - 2) Table 64431-B of Section 64431 (Fluoride);
 - 3) Table 6444-A of Section 64444 (Organic Chemicals);
 - 4) Table 64449-A of Section 64449 (SMCLs - Consumer Acceptance Limits);
and
 - 5) Table 64449-B of Section 64449 (SMCLs - Ranges)."

c. Discharge Specification I.C.4.c.states:

"The discharge shall not cause a pollution as defined in Section 13050 of the California Water Code, or a threatened pollution."

d. Discharge Specification I.C.4.d. states:

"Neither the treatment nor the discharge shall cause a nuisance as defined in Section 13050 of the California Water Code."

3. The 2001 Order contains a Monitoring and Reporting Program No. 01-38 (2001 MRP). The 2001 MRP requires the Discharger to "submit semiannual monitoring reports to the Regional Board by January 15th and July 15th each year. The monitoring and reporting periods are from July 1 to December 31 and from January 1 to June 30 of each year."
4. Between January 7, 2010 and March 9, 2010 Water Board staff conducted water sampling from the residential wells in the vicinity of several dairies that included four residential supply wells upgradient and downgradient of the N & M Dairy. The sampling results for nitrate as nitrogen (N) concentrations for the two upgradient residential wells were 0.23 mg/L and 1.6 mg/L and the two downgradient residential wells were 18 mg/L.
5. On May 10, 2010, Water Board staff inspected N & M Dairy and neighboring properties and made several observations indicating that waste management and disposal practices led to ongoing nuisance conditions at the dairy. Some of the corrals at the N & M Dairy contained piles of manure, manure was in contact with standing water, manure was stockpiled at the southeast corner and western side of the N & M Dairy property, and N & M Dairy's wastewater retention ponds contained large amounts of manure. These conditions created an odor problem and habitat for vectors such as flies that created a condition of nuisance.
6. In response to this inspection, the Water Board issued a Cleanup and Abatement Order R6V-2010-0029 on July 2, 2010 (2010 CAO) to address the nuisance conditions on the dairy. The 2010 Order required the Discharger to remove all excess manure (i.e., manure remaining after application to the authorized onsite disposal areas at the agronomic application rate specified in WDRs), including but not limited to manure stockpiles and excess manure from corrals and ponds at N & M Dairy. As part of the 2010 CAO, the Discharger was required to submit a Manure Removal Plan by July 21, 2010, begin implementation of the Manure Removal Plan by August 1, 2010, submit a Nutrient Management Plan by October 7, 2010, complete manure removal by October 22, 2010, and submit a Final Report by November 17, 2010.

7. On October 21, 2010, the Water Board issued Investigative Order No. R6V-2010-0044 (2010 Investigative Order) in response to groundwater sampling conducted on January 7, 2010 and March 9, 2010 at two domestic supply wells downgradient from N & M Dairy. Testing of these wells showed that they exceeded the MCL for nitrate, and exceeded recommended SMCL for total dissolved solids (TDS). The 2010 Investigative Order required N & M Dairy to conduct additional water sampling of the downgradient and cross-gradient residential wells. The 2010 Investigative Order required the discharger to submit a workplan for well sampling locations by December 1, 2010, file an Interim Report by March 15, 2011 and a Final Report by June 15, 2011.
8. On December 2, 2010, the Water Board issued Amended Cleanup and Abatement Order R6V-2010-0029-A1 (2010 Amended CAO). This document allowed for an extension of the timeline for compliance with the Manure Removal Plan established in the 2010 CAO. The 2010 Amended CAO requires the discharger to complete manure removal by October 19, 2011, and submit a final report of manure removal by November 12, 2011.
9. On July 7, 2011, Water Board staff conducted an inspection of the dairy. Inspectors observed inadequate wash water retention ponds, poor drainage and water ponding in the corrals, inadequate storm retention basins, wash water seeping out from the embankment of one of the ponds on the southeast area of the dairy, overflow of wash water from the ponds to drainage ditches, and disposal of wash water within the floodplain of the Mojave River in an area within 300 feet of the river.

RECENT GROUNDWATER MONITORING RESULTS

10. Recent testing of groundwater on and around the dairy has shown that nitrate and TDS containing wastes have polluted groundwater beyond the boundaries of the dairy and violated requirements stated in Finding No. 2 above. The semiannual monitoring report received on January 18, 2011, indicates that the results for groundwater samples collected from monitoring wells within the dairy exceed the MCL for nitrate as N and SMCL for TDS and other constituents (see Finding No. 14 for limits). The Final Report Neighboring Domestic Supply Well Sampling, dated June 4, 2011 (Report), submitted by the Discharger to the Water Board on June 7, 2011, details the presence of nitrate in groundwater downgradient of the dairy. The Report also identified nitrate pollution in groundwater originating at the dairy. The results presented in the Report indicate that the nitrate plume originating at the dairy has migrated downgradient affecting individual supply wells in the adjacent neighborhood. The sampling results confirmed nitrate and TDS in the groundwater downgradient and cross-gradient are exceeding the MCL and SMCL, respectively.
11. The Discharger caused, allowed or threatened to cause nitrate and TDS-containing wastes to be discharged to waters of the State underlying and downgradient of the N&M Dairy property.

12. California Water Code section 13050, subdivision (l) defines "pollution" as: *an alteration of the water quality to a degree that unreasonably affects either beneficial uses or facilities that serve these beneficial uses.*

AFFECTED BENEFICIAL USES

13. Pursuant to Chapter 2 of the Water Quality Control Plan, Lahontan Region (Basin Plan), groundwater in the Mojave Hydrologic Unit underlying the dairy and surrounding areas include the following present and potential beneficial uses: domestic and municipal water supply, agricultural water supply, industrial water supply, freshwater replenishment, and aquaculture. Residences downgradient of the dairy rely on the groundwater of Mojave Hydrologic Unit for private domestic drinking supply wells for water supply.
14. The 1995 Basin Plan established water quality objectives (WQOs) for the protection of beneficial uses. Ground waters designated as MUN shall not contain concentrations of chemical constituents in excess of the MCL or SMCL based upon drinking water standards specified in Title 22 of the California Code of Regulations (Basin Plan, Section 5.1, pages 10-11).

WQOs include the following MCL established by the California Department of Public Health as a safe level to protect public drinking water supplies:

Nitrate as N	10 mg/L
Nitrate as NO ₃	45 mg/L

The following SMCLs are established by the California Department of Public Health as consumer acceptance contaminant levels (Title 22, section 64449 (a)):

Secondary Maximum Contaminant Levels:

Iron	0.3 mg/L
Manganese	0.05 mg/L

Secondary Maximum Contaminant Level Ranges

Constituent	Recommended	Upper	Short Term
Total Dissolved Solids (mg/L)	500	1000	1500
Chloride	250	500	600

15. Discharges from N & M Dairy have caused groundwater beneath and immediately downgradient of the dairy field to exceed the drinking water standard for nitrate as N (10 mg/L) and SMCL for TDS (500 mg/L). Groundwater monitoring data indicate approximately eight (8) of the downgradient residential wells contain water with nitrate as N concentrations exceeding the drinking water MCL of 10 mg/L and eleven (11) of the downgradient residential wells contain water with TDS

concentrations exceeding the SMCL of 500 mg/L. The MCLs and SMCLs were established by the California Department of Health Services pursuant to the California Safe Drinking Water Act and is found in Title 22 of the California Code of Regulations (CCR), Division 4, Chapter 15, Domestic Water Quality Monitoring.

16. Because the discharges have caused or contributed to groundwater beneath and downgradient of the N and M Dairy to exceed the drinking water standard for nitrate as N (10 mg/L) and TDS, the affected groundwater is no longer useable for drinking or domestic supply purposes. This alteration is unreasonable because the aquifer is currently used for drinking water and the portion of the aquifer affected by the discharge is no longer suitable for this beneficial use. The discharges have, therefore, unreasonably affected the water for municipal and domestic supply beneficial use and caused a condition of pollution.

AUTHORITY - LEGAL REQUIREMENTS

17. Water Code section 13304, subdivision (a) states:

Any person ... who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by ... a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup and abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

18. Pursuant to Water Code section 13304, subdivision (f):

Replacement water provided pursuant to subdivision (a) shall meet all applicable federal, state, and local drinking water standards, and shall have comparable quality to that pumped by the public water system or private well owner prior to the discharge of waste.

19. State drinking water standards promulgated in the California Code of Regulations (22 CCR §64449 et. seq.) require community water systems to comply with both MCLs and SMCLs. A Regional Board may order replacement water for private domestic wells that have been impacted by a discharger's pollution or nuisance. Discharges that exceed either the MCLs or SMCLs constitute an alteration of the

water quality to a degree that unreasonably affects either beneficial uses or facilities that serve these beneficial uses.

20. The conditions described in Findings 4, 5, 9 and 10 constitute violations of WDRs and the Basin Plan. The conditions described in these Findings also indicate that the Discharger has caused or permitted waste to be discharged or deposited where it has or will be discharged into waters of the state. The Discharger and N & M Dairy are therefore subject to the Water Boards' authority as described in Water Code section 13304.

21. Pursuant to Water Code section 13267, subdivision (b):

In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the reports, and shall identify the evidence that supports requiring that person to provide the reports.

22. This Order requires monitoring, work plans and reports pursuant to Water Code section 13267, subdivision (b). The work plans and monitoring required by this Order are necessary to design a water replacement plan and implementation schedule and to determine compliance with this Order.
23. Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes or to oversee cleanup of such waste, abatement of the effect thereof, or other remedial action pursuant to this Order.
24. The issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provision of the California Environmental Quality Act (Public Resources Code, section 21000 et seq.), pursuant to California Code of Regulations (CCR), title 14, section 15321, subdivision (a)(2). The implementation of this Order is also an action to assure the restoration of the environment and is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, section 21000 et seq.), in accordance with CCR title 14, sections 15308 and 15330.

25. Any person affected by this action of the Water Board may petition the State Water Resources Control Board (State Board) to review the action in accordance with Water Code section 13320 and Title 23, CCR, section 2050 through 2068. The State Board, office of Chief Counsel, must receive the petition within 30 days of this Order.

THEREFORE, IT IS HEREBY ORDERED, that pursuant to Water Code sections 13267 and 13304, that the Discharger and N & M Dairy shall abate the effects of waste discharges at or near the northern reclamation field as follows:

A. ORDERS:

1. By **August, 15, 2011**, supply interim uninterrupted replacement drinking water service (ie., bottled water or equivalent) for consumption and cooking, to residences served by private domestic wells within the Affected Area (see Attachment A) in which nitrate as N has been detected at concentrations at or exceeding the MCL, or where concentrations of TDS exceed the SMCL based on constituent concentration information generated from monitoring data submitted on June 7, 2011, and any subsequent monitoring data submitted to the Water Board. Furthermore, the Discharger and N & M Dairy shall supply interim uninterrupted replacement drinking water service (ie., bottled water or equivalent), to any additional residences in the Affected Area served by private domestic wells affected within 48 hours of determining that the private well at the residence exhibits a nitrate as N concentration of 10 mg/L or greater for the first time or the concentration of total dissolved solids exceeds the SMCL for the first time.

The Affected Area is included in Attachment A as defined by the following boundaries in the USGS Wild Crossing and Hodge 7.5-minute quadrangles: The western edge begins 0.2 miles west of the intersection of Indian Trails road and Lords road. The eastern boundary extends from a point 1.4 miles east of the intersection of Hodge Road and National Trails Highway. The northern boundary follows the approximate center line of the Mojave River north of National Trails highway. The southern boundary is approximately 0.5 miles south of National Trails Highway, and runs parallel to National Trails highway

2. By **August 22, 2011**, submit a technical report to the Water Board listing all residences that have been provided interim uninterrupted replacement drinking water service. The report must include the method that was implemented to provide interim uninterrupted replacement drinking water service, including ongoing maintenance of this service. If a residence should have been provided interim uninterrupted replacement drinking water service based on the requirement in Order Paragraph No. 1 above and has not been provided interim uninterrupted replacement drinking water service, the technical report must include actions the Discharger and N & M Dairy have taken and will continue to take to provide interim uninterrupted replacement drinking water service to the residence. If the reason the Discharger and N & M Dairy have failed to provide interim uninterrupted

replacement drinking water service is the refusal of the occupants of the residence to accept such service, the report must include a statement from the occupants of this refusal.

3. By **August 22, 2011**, Provide notification to all parcel owners and residents within the Affected Area shown on Attachment A that nitrate as N concentrations in groundwater may exceed the MCL of 10 mg/L or where TDS levels exceed the SMCL (500 mg/L). The Discharger and N & M Dairy shall also include notification that their residential wells will be sampled on a quarterly basis, beginning September 8, 2011.
4. By **September 20, 2011**, complete the next quarterly sampling of all private domestic wells within the Affected Area and submit samples with chain of custody documentation to a California certified laboratory for nitrate, total dissolved solids, general minerals and bacteria analyses. Samples from these wells must be collected quarterly thereafter (December, March, June, and September).
5. By **October 14, 2011 and quarterly thereafter (January 15, April 15, July 15 and October 15) but no later than 21 days after completing the well sampling required in Order Paragraph No. 4 above**, submit to the Water Board California-certified laboratory results and other quality assurance/control documentation from the first quarterly sampling event (and subsequent quarterly sampling events) for all private domestic wells sampled and a list of residences with nitrate as N concentrations at or exceeding 10 mg/L in their supply water that will receive bottled water or equivalent, or wells that exceed 9 mg/L where the discharger has opted to provide bottled water (using Method Detection Limit of 1 mg/L or better). If the results of this monitoring identify a well that exhibits a nitrate as N concentration at or exceeding 10 mg/L for the first time, the Discharger must notify the Water Board of this information within 48 hours of the Dairy receiving the monitoring information.
6. The Discharger is required to perform bi-monthly testing of wells within the Affected Area where monitoring yields results at or exceeding 9 mg/L but below 10 mg/L, where replacement drinking water has not been issued. This requirement is ordered to ensure that water at or above the 10 mg/L MCL is not used for domestic water supply. Data from wells sampled in the Affected Area indicates that nitrate as N levels may fluctuate between quarterly sampling events. Domestic drinking water supply wells having nitrate as N levels below the MCL during one sampling event may exhibit levels above the MCL in a subsequent sampling event. Wells that test at or exceeding levels of 9 mg/L threaten to exceed the MCL. Bi-monthly testing is required until the nitrate as N levels drop below 9 mg/L for three sampling events, or until replacement water is provided.

Alternatively, the Discharger may elect to provide replacement water to residences in the Affected Area where monitoring yields results at or exceeding 9 mg/L but below 10 mg/L for nitrate as N instead of performing increased bi-monthly testing. The Discharger must provide notification to the Water Board of their decision to

provide replacement water.

7. Uninterrupted replacement water service may cease if the Discharger demonstrates that drinking water in the Affected Area meets the MCL for nitrate as N and SMCL for TDS. In order to establish compliance with the MCL for nitrate as N and SMCL for TDS, the Discharger shall submit documentation in the form of testing results that demonstrate that the groundwater in the affected well is below the 10 mg/L MCL for nitrate and below 500 mg/L SMCL for TDS for four consecutive quarterly monitoring periods.
8. The Discharger shall be liable, pursuant to Water Code section 13304, to the Water Board for all reasonable costs incurred by the Water Board to investigate unauthorized discharges of waste, or to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, pursuant to this Order. The Discharger shall reimburse the Water Board for all reasonable costs associated with site investigation, oversight, and cleanup. Failure to pay any invoice for the Water Board's investigation and oversight costs within the time stated in the invoice (or within thirty days after the date of invoice, if the invoice does not set forth a due date) shall be considered a violation of this Order. If the Property is enrolled in a State Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program.
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10. This Order does not limit the authority of the Water Board to institute additional enforcement actions or to require additional investigation and cleanup of the site consistent with the Water Code. This Order may be revised by the Assistant Executive Officer as additional information becomes available. Failure to comply with the terms or conditions of this Cleanup and Abatement Order will result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to Water Code sections 13350 and 13268 or referral to the Attorney General of the State of California for civil enforcement.

11. This Order does not affect the Discharger's obligation to comply with the 2010 Cleanup and Abatement Order (R6V-2010-0029), the 2010 Investigative Order (R6V-2010-0044) or the 2010 Amended CAO (R6V-2010-0029-A1). The requirements and legal enforceability of these Orders are not superseded or affected upon issuance of this Order.

B. REPORTING REQUIREMENTS:

1. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to the Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility of activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:


Assistant Executive Officer
California Regional Water Quality Control Board
Lahontan Region - Victorville Office
14440 Civic Drive, Suite 200
Victorville, CA 92392
Attn: Ghasem Pour-ghasemi
Email: gpourghasemi@waterboards.ca.gov
Phone: (760) 241-6583

C. NOTIFICATIONS:

1. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action required by this Order.
2. **California Environmental Quality Act (CEQA) Compliance.** Issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code, section 21000 et seq.) pursuant to California Code of Regulations, Chapter 3, Title 14, section 15321 subdivision (a)(2). This action is also exempt from the provisions of CEQA in accordance with section 15061(b)(3) of Chapter 3, Title 14 of the California Code of Regulations because it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment.
3. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water Board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, state holiday, or furlough day, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at: <http://www.waterboards.ca.gov/publicnotices/petitions/waterquality> or will be provided upon request.
4. **Request for Extension of Time.** If for any reason, the Discharger is unable to perform any activity or submit any document in compliance with the schedule set forth herein, or in compliance with any work schedule submitted pursuant to this Order and approved by the Assistant Executive Officer, the Discharger may request, in writing, an extension of the time specified. The extension request shall include justification for the delay. An extension may be granted only by revision of or amendment to this Order.

5. **Enforcement Notification.** Failure to comply with the terms or conditions of this Cleanup and Abatement Order may result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to California Water Code section 13350 and/or section 13268, in an amount not to exceed \$5,000 for each day in which the violation occurs under Water Code section 13304 or 13350, or referral to the Attorney General of the State of California for injunctive relief or civil or criminal liability.

Ordered by:



Dated:

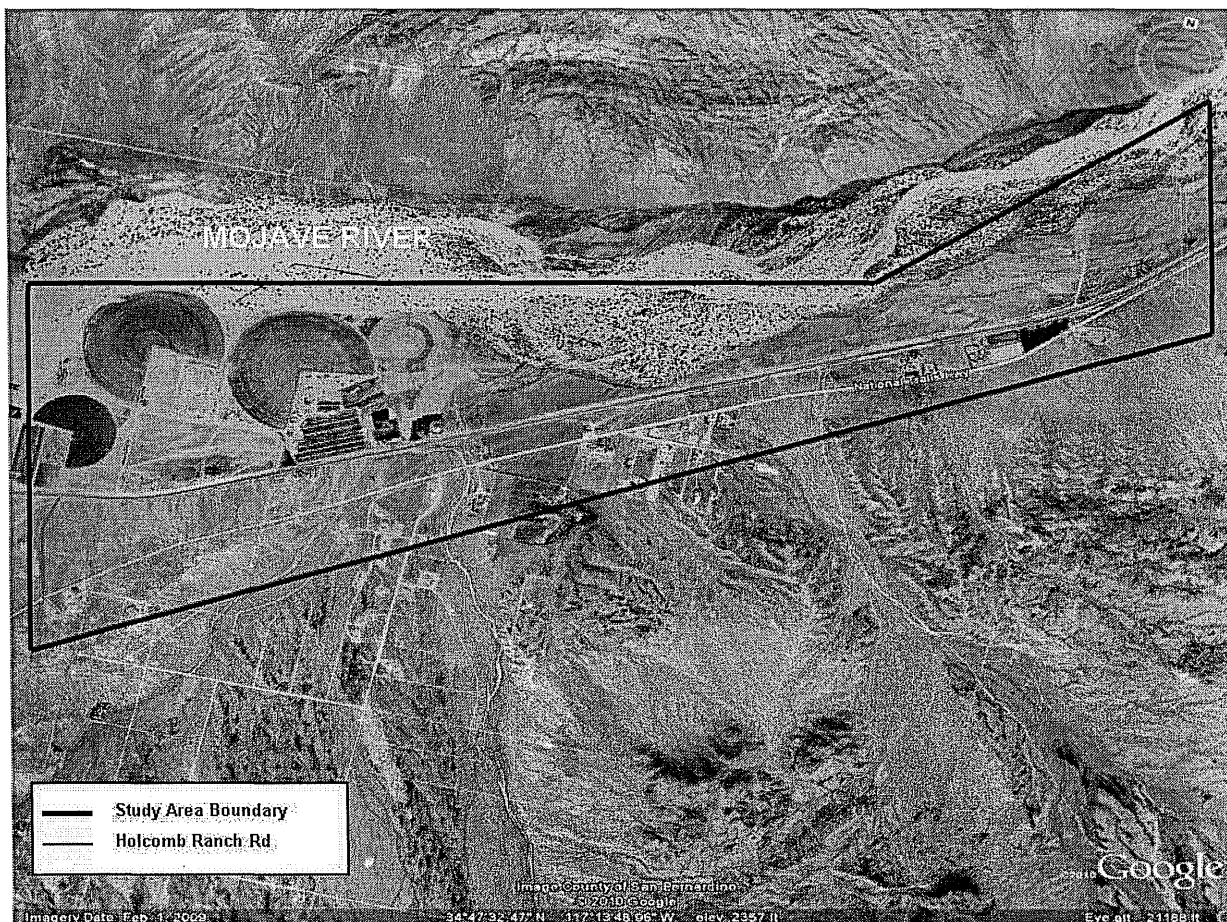
AUGUST 2, 2011

for

LAURI KEMPER
ASSISTANT EXECUTIVE OFFICER

Attachments:

- A. Attachment A
- B. Water Code section 13267 Fact Sheet



ATTACHMENT A

**Fact Sheet – Requirements for Submitting Technical Reports
Under Section 13267 of the California Water Code**

October 8, 2008

What does it mean when the regional water board requires a technical report?

Section 13267¹ of the California Water Code provides that "...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged...waste that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires".

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

Providing the required information in a technical report is not an admission of guilt or responsibility. However, the information provided can be used by the regional water board to clarify whether a given party has responsibility.

Are there limits to what the regional water board can ask for?

Yes. The information required must relate to an actual or suspected discharge of waste, and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The regional water board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension can be given for good cause. Your request should be submitted in writing, giving reasons. A request for a time extension should be made as soon as it is apparent that additional time will be needed and preferably before the due date for the information.

Are there penalties if I don't comply?

Depending on the situation, the regional water board can impose a fine of up to \$1,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties. A person who submits false information is guilty of a misdemeanor and may be fined as well.

What if I disagree with the 13267 requirement and the regional water board staff will not change the requirement and/or date to comply?

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of the Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Claim of Copyright or other Protection

Any and all reports and other documents submitted to the Regional Board pursuant to this request will need to be copied for some or all of the following reasons: 1) normal internal use of the document, including staff copies, record copies, copies for Board members and agenda packets, 2) any further proceedings of the Regional Board and the State Water Resources Control Board, 3) any court proceeding that may involve the document, and 4) any copies requested by members of the public pursuant to the Public Records Act or other legal proceeding.

If the discharger or its contractor claims any copyright or other protection, the submittal must include a notice, and the notice will accompany all documents copied for the reasons stated above. If copyright protection for a submitted document is claimed, failure to expressly grant permission for the copying stated above will render the document unusable for the Regional Board's purposes, and will result in the document being returned to the discharger as if the task had not been completed.

If I have more questions, who do I ask?

Requirements for technical reports normally indicate the name, telephone number, and email address of the regional water board staff person involved at the end of the letter.

¹ All code sections referenced herein can be found by going to www.leginfo.ca.gov. Copies of the regulations cited are available from the Regional Board upon request.



California Regional Water Quality Control Board
Lahontan Region



Matthew Rodriguez
Secretary for
Environmental Protection

Victorville Office
14440 Civic Drive, Suite 200, Victorville, California 92392
(760) 241-6583 • Fax (760) 241-7308
<http://www.waterboards.ca.gov/lahontan>

Edmund G. Brown Jr.
Governor

August 8, 2011

Certified Mail No: 7009 0820 0001 6630 6264
WDID No. 6B368010004

Neil and Mary de Vries
13025 Shasta Court
Rancho Cucamonga, CA 91739

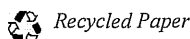
CLEANUP AND ABATEMENT ORDER NO. R6V-2011-0056 REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE GROUNDWATER POLLUTION AND NUISANCE CONDITIONS CAUSED BY INADEQUATE MANURE AND WASH WATER MANAGEMENT FROM DAIRY OPERATIONS AT N & M DAIRY, HELENDALE, SAN BERNARDINO COUNTY

Enclosed is Cleanup and Abatement Order (CAO) No. R6V-2011-0056. The CAO directs N & M Dairy to clean up and abate the groundwater pollution and nuisance conditions caused by inadequate manure and wash water management from dairy operations at N & M dairy. The groundwater pollution and nuisance conditions violates N & M Dairy's Waste Discharge Requirements.

The CAO requires N & M Dairy to immediately begin action to abate the groundwater pollution and nuisance conditions and to perform the following actions:

- 1) By **September 6, 2011**, submit to the Water Board staff a corrective action plan and schedule for the N & M dairy to implement all of the items specified in the Nutrient Management Plan (NMP).
- 2) By **September 21, 2011**, begin implementation of the NMP.
- 3) By **October 26, 2011**, submit to the Water Board staff an engineered design for storm water retention ponds and a storm water drainage plan for all corrals.
- 4) By **October 26, 2011**, submit to the Water Board an engineering evaluation of the existing ponds and propose remedial measures to eliminate additional adverse impacts to ground water.
- 5) By **October 26, 2011**, submit to the Water Board a plan to reduce or eliminate wash water, and to deliver any wash water produced to cropland at agronomical rates.
- 6) By **October 26, 2011**, submit to the Water Board staff an engineered design showing that all precipitation and surface drainage from outside of the existing dairy (i.e., "run on") is diverted away from any manured areas. The design shall be implemented by **May 15, 2012**.
- 7) By **December 15, 2012**, complete grading of all drainage systems and corrals to convey stormwater from the corrals and eliminate ponding within the corrals.

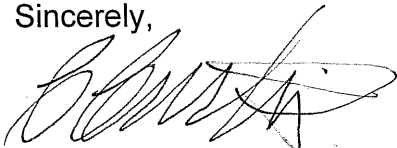
California Environmental Protection Agency



- 8) Starting **January 18, 2012**, and on July 15 and January 15 of every year, submit progress reports to the Water Board. Submission of progress reports shall continue until all the proposed plans and NMP work are completed.
- 9) By **October 7, 2014**, all construction work must be completed and all improved manure management practices implemented.
- 10) By **November 18, 2014**, submit a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order and describing how those actions have corrected the impact to groundwater and nuisance conditions at the N & M Dairy.

If you have any questions, please contact Ghasem Pour-Ghasemi at (760) 241-7309 or Keith Elliott, Senior Water Resource Control Engineer at (760) 241-7391.

Sincerely,



Lec: LAURI KEMPER, P.E.
ASSISTANT EXECUTIVE OFFICER

cc: Jim de Vries

Enclosure: Cleanup and Abate Order No. R6V-2011-0056

GP/rp EnfOrd2011/ NMDairy CAO_CoverLtr R6V-2011-0056

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

CLEANUP AND ABATEMENT ORDER NO. R6V-2011-0056

WDID NO. 6B368010004

**REQUIRING N & M DAIRY TO CLEAN UP AND ABATE THE GROUNDWATER
POLLUTION AND NUISANCE CONDITIONS CAUSED BY INADEQUATE MANURE
AND WASH WATER MANAGEMENT FROM DAIRY OPERATIONS AT N & M DAIRY**

San Bernardino County_____

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Water Board) finds that:

FINDINGS

1. Neil and Mary de Vries (hereafter the "Discharger") own and operate the N & M Dairy, a 904-acre dairy site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road in Helendale in San Bernardino County. The N & M Dairy site includes San Bernardino County Assessor's parcel numbers 466-041-01, 466-041-17, 466-041-20, 466-041-21, 466-041-22, 466-041-23, 466-091-15, 466-091-17, 466-091-26, 466-101-05, 466-101-06, and 466-111-02. Although the two addresses are sometimes referred to as N & M Dairy #1 and N & M Dairy #2, they are considered one dairy for the purpose of this Order.
2. Waste Discharge Requirements (WDRs) contained in Water Board Order No. 6-01-38 (2001 Order) regulate waste discharges from the N & M Dairy. For the purpose of that Order, "waste" refers to constituents in manure, wash water, stormwater, feeds, and other materials that are produced or used at the dairy and have potential to be released to the environment and affect water quality.
 - a. Discharge Specification I.C.4.d. states:

"Neither the treatment nor the discharge shall cause a nuisance as defined in Section 13050 of the California Water Code."
 - b. Discharge Specification I.A.1 states:

"The Discharger shall design, construct, and maintain containment structures to retain all dairy wash water within the Facility, including all the precipitation on and drainage through manured areas which result from a 25-year, 24-hour storm, pursuant to provisions in section 22562, title 27 of the California Code of Regulations. A California Registered Civil Engineer or other qualified individual shall do design of any new containment structures."

c. Discharge Specification I.B.2 states:

"Groundwater shall not contain concentrations of chemical constituents in excess of the maximum contaminant level (MCL) or secondary maximum contaminant level (SMCL) based upon drinking water standards specified in the following provisions of Title 22 of the California Code of Regulations:"

- i. Table 64431-A of Section 64431 (Inorganic Chemicals);
- ii. Table 64431-B of Section 64431 (Fluoride);
- iii. Table 6444-A of Section 64444 (Organic Chemicals);
- iv. Table 64449-A of Section 64449 (SMCLs - Consumer Acceptance Limits);
and
- v. Table 64449-B of Section 64449 (SMCLs - Ranges).

d. Discharge Specification I.C.4.c states:

"The discharge shall not cause pollution as defined in section 13050 of the California Water Code, or a threatened pollution."

3. On July 2, 2010, the Water Board issued Cleanup and Abatement Order (2010 Order) No. RV6-2010-0029 requiring the Discharger to haul excessive manure stored at the Dairy to authorized disposal locations. The 2010 Order also required the Discharger to develop and submit by October 7, 2010 a Nutrient Management Plan (NMP) for the Dairy site. On December 2, 2010, Water Board issued Order No. RV6-2010-0029-A1 which amended the 2010 Order to require completion of the ordered manure removal by October 19, 2011.
4. On October 11, 2010, the Water Board received a Comprehensive Nutrient Management Plan (NMP) evaluation conducted by the Natural Resources Conservation Service (NRCS) for N & M Dairy. The Discharger has stated they were involved in the evaluation process and that they agreed that the items/practices listed in each element of the NMP are needed. The Discharger also stated that it is their intention to make needed improvements/alternatives discussed and implement/accomplish a NMP in a timely manner. Some of the specific items the NMP requires are:
 - a. Construction of new ponds that comply with state regulations,
 - b. Installation of concrete settling basins to separate solids from wash water,
 - c. Grading corrals to drain to retention ponds and to eliminate ponding within the corrals,
 - d. Protection of wellheads from stormwater runoff, tailwater, and manure applications,

- e. Adoption of NRCS irrigation water management practices such that application of manure and wash water is applied to cropland at agronomical rates,
 - f. Application of wash water to cropland instead of allowing it to percolate in ponds and other areas,
 - g. Collection of crop and forage tissue samples as necessary to determine nutrient needs, and
 - h. Setting targets for the seasonal application of manure and other fertilizers on the cropland:
5. On October 21, 2010 Water Board issued an Investigative Order No. R6V-2010-0044 ordering N & M Dairy to conduct water sampling of the downgradient and cross-gradient residential well. The sampling results confirmed nitrate as N and total dissolved solids (TDS) in the groundwater downgradient and cross-gradient are exceeding the MCL and SMCL respectively.
6. On August 2, 2011, the Water Board issued Cleanup and Abatement Order No. RV6-2011-0055 requiring the Discharger to provide interim uninterrupted replacement drinking water to residences served by private domestic wells in a specified Affected Area (2011 Replacement Water CAO).
7. The Discharger is in violation of several specific requirements of Water Board Order No. 6-01-38 listed above in Finding No. 2.
8. Water Board staff received complaints from residents near the N & M Dairy in June and July 2011 stating that the dairy and surrounding neighborhoods are fly-infested. The residents reported that the flies are unbearable and prevent them from the free use of their properties. On July 7, 2011, Water Board staff inspected N & M Dairy and made several observations, including but not limited to the following:
- a. Some corrals at the N & M Dairy contained piles of manure and standing water in contact with the manure.
 - b. Large manure stockpiles located in corrals on the east and southwest sides of the N & M Dairy indicate that manure is not removed from the dairy at an appropriate frequency to prevent nuisances and protect water quality.
 - c. N & M Dairy's wash-water retention ponds were more than half-full with wet manure solids.
 - d. The retention ponds are not designed and constructed to meet the Water Board's requirements.

- e. The dairy does not have adequate storage for generated wash water, and some of the ponds are discharging into the adjacent area, which is very permeable, thus creating nuisance conditions and a potential for groundwater degradation.
 - f. Staff observed flies and noted odors throughout the dairy.
9. Based on staff observations, inadequate management of manure and wash water by the N & M Dairy results in excessive production of odors and flies, which residents in the vicinity of the dairy say are offensive to the senses and prevent them from the free use of their property. Thus a condition of nuisance has been created by N & M Dairy.
10. Additionally, during the July 7, 2011 inspection, Water Board staff observed inadequate wash water retention ponds, wash water seeping out from the embankment of one of the ponds on the southeast area of dairy, overflow of wash water from the ponds to drainage ditches, and discharge of wash water to the floodplain of the Mojave River in an area within 300 feet of the river.
11. Based on the July 7 inspection and review of technical documents submitted by the dairy, Water Board staff has concluded that the retention ponds on the dairy do not meet the technical standards required by title 27, section 22562, subdivision (d) of the California Code of Regulations.
- a. The soil at the Dairy is very sandy and permeable and contains more than ten percent gravel. Retention pond berms are constructed from native soil and the bottom half of the ponds are excavated well into the native soil.
 - b. Both the inside and outside slopes of the retention ponds berms are steeper than 2:1, slope contrary to acceptable engineering standards.
 - c. Storm water runoff from the corrals is poorly controlled because control structures are poorly designed or non-existent.
12. The semiannual monitoring report received on January 18, 2011 included groundwater samples collected from monitoring wells within the dairy. Results of groundwater sampling indicate groundwater exceeds the MCLs for nitrate as N and SMCLs for total dissolved solids.

AUTHORITY – LEGAL REQUIREMENTS

13. California Water Code section 13050, subdivision (m) defines “nuisance” as a condition that meets all of the following requirements:
- a. *Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.*

- b. *Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.*
 - c. *Occurs during, or as a result of, the treatment or disposal of wastes.*
- 14. Water Code section 13267, subdivision (b): states:

In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharges waste within its region, shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.
- 15. Pursuant to Water Code section 13267, subdivision (b), this Order requires the Discharger to submit technical and monitoring reports, including but not limited to work plans, to Water Board staff. The Water Board needs the information required by these reports to ensure the cleanup and abatement of the nuisance conditions created by N & M Dairy. Further, these reports shall serve to verify that N & M Dairy performs all actions required by the work plans and that performance of those actions is adequate to complete cleanup and abatement of the nuisance conditions.
- 16. Water Code section 13304, subdivision (a) states:

Any person ... who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by ... a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup and abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

17. The actions required in this CAO are essential for protecting water quality from wastes produced at the N & M Dairy and for stopping the N & M Dairy from creating nuisances that affect nearby residents.

THEREFORE, IT IS HEREBY ORDERED that, pursuant to Water Code section 13267 (see Attachment "B") and section 13304, the Discharger shall take the following actions to comply with this Order:

1. By **September 6, 2011**, submit to the Water Board staff a Corrective Action Plan and Schedule for the N & M Dairy to implement all of the items specified in the NMP including, but not limited to: wash water management, management of drainage from corrals, control of storm water, and construction of new wash water retention ponds. Where construction of new facilities planned, the schedule must include a date for submittal of the construction plans and design to the Water Board. All submitted designs and proposals must be reviewed and accepted by the Water Board Executive Officer before implementation.
2. By **September 21, 2011**, begin implementation of the NMP.
3. By **October 26, 2011**, submit to the Water Board staff an engineered design for storm water retention ponds and a storm water drainage plan for all corrals that will eliminate ponding in corrals and direct storm water from the corrals into the storm water retention ponds. This work must be prepared by, or under the direct supervision of, and certified by, a registered Civil Engineer pursuant to California law or other person permitted under the provisions of the California Business and Professions Code to assume responsible charge of such work. Storm water ponds shall be designed to contain the 25-year, 24-hour storm event runoff and must have a depth marker that clearly indicates the minimum capacity necessary to contain the runoff and direct precipitation from a 25-year, 24-hour storm event.
4. By **October 26, 2011**, submit to the Water Board an engineering evaluation of the existing ponds and propose remedial measures to eliminate additional adverse impacts to ground water. New ponds or modification of the existing ponds shall meet one of the following conditions:
 - a) Be constructed with a double liner of 60-mil high density polyethylene or material of equivalent durability and impermeability, with a leachate collection and removal system (i.e., be constructed in accordance with section 20340 of Title 27).
 - b) Be constructed in accordance with NRCS Conservation Practice Standard 313 or equivalent and consistent with a technical report submitted by the Discharger demonstrating that the alternative design is protective of groundwater quality.

Ponds design must be prepared by, or under the direct supervision of, and certified by, a registered Civil Engineer pursuant to California law or other person permitted

under the provisions of the California Business and Professions Code to assume responsible charge of such work. The design report shall include at a minimum the following:

- i) Calculations demonstrating that adequate storage capacity for wash water containment will be achieved,
- ii) Details on the liner and leachate collection and removal system (if appropriate),
- iii) A schedule for construction and certification of completion,
- iv) Embankment side slopes for all ponds.
- v) A construction quality assurance plan describing testing and observations needed to document construction of the ponds in accordance with sections 20323 and 20324 of Title 27, and
- vi) An operations and maintenance plan for the ponds.

All submitted designs and proposals must be reviewed and accepted by Water Board Executive Officer before implementation.

- 5. By **October 26, 2011**, submit to the Water Board a plan to reduce or eliminate wash water (e.g., by dry milking), and to deliver any wash water produced to cropland at agronomical rates.
- 6. By **October 26, 2011**, submit to the Water Board staff an engineered design showing that all precipitation and surface drainage from outside of the existing dairy (i.e., "run on") is diverted away from any manured areas, unless such drainage is fully contained (Title 27, section 22562(b)). The design shall be implemented by **May 15, 2012**.
- 7. By **December 15, 2012**, complete grading of all drainage systems and corrals to convey stormwater from the corrals and eliminate ponding within the corrals.
- 8. Starting **January 18, 2012**, and on July 15 and January 15 of every year, submit progress reports to the Water Board. Submission of progress reports shall continue until all the proposed plans and NMP work are completed.
- 9. By **October 7, 2014**, all construction work must be completed and all improved manure management practices implemented.
- 10. By **November 18, 2014**, submit a Final Report that describes the actions taken by the Discharger to comply with the requirements imposed by this Order, and describing how those actions have corrected the impact to groundwater and nuisance conditions at the N & M Dairy.

11. The Discharger shall be liable, pursuant to Water Code section 13304, to the Water Board for all reasonable costs incurred by the Water Board to investigate unauthorized discharges of waste, or to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, pursuant to this Order. The Discharger shall reimburse the Water Board for all reasonable costs associated with site investigation, oversight, and cleanup. Failure to pay any invoice for the Water Board's investigation and oversight costs within the time stated in the invoice (or within thirty days after the date of invoice, if the invoice does not set forth a due date) shall be considered a violation of this Order. If the Property is enrolled in a State Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program.
12. All technical, monitoring plans, and reports required in conjunction with this Order are required pursuant to Water Code section 13267 and shall include a statement by the Discharger, or an authorized representative of the Discharger, certifying (under penalty of perjury in conformance with the laws of the State of California) that the work plan and/or report is true, complete, and accurate. Engineering reports and plans shall be prepared or directly supervised by a California registered Professional Civil Engineer, or other appropriate certified professional, and signed and stamped to that effect.
13. This Order does not limit the authority of the Water Board to institute additional enforcement actions or to require additional investigation and cleanup of the site consistent with the Water Code. This Order may be revised by the Assistant Executive Officer as additional information becomes available. Failure to comply with the terms or conditions of this Cleanup and Abatement Order will result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to Water Code sections 13350 and 13268 or referral to the Attorney General of the State of California for civil enforcement.
14. This Order does not affect the Discharger's obligation to comply with any previously issued Orders, including the 2010 Cleanup and Abatement Order (R6V-2010-0029), the 2010 Investigative Order (R6V-2010-0044), the 2010 Amended CAO (R6V-2010-0029-A1), or the recently issued 2011 Replacement Water CAO. The requirements and legal enforceability of these Orders are not superseded or affected upon issuance of this Order.

Reporting Requirements:

1. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to the Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated

facility of activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:

California Regional Water Quality Control Board
Lahontan Region - Victorville Office
14440 Civic Drive, Suite 200
Victorville, CA 92392
Attn: Ghasem Pour-ghasemi
Email: pghasemi@waterboards.ca.gov
Phone: (760) 241-6583

Notifications:

4. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action required by this Order.
5. **California Environmental Quality Act (CEQA) Compliance.** Issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code, section 21000 et seq.) pursuant to California Code of Regulations, Chapter 3, Title 14, section 15321 subdivision (a)(2). This action is also exempt from the provisions of CEQA in accordance with section 15308 of Chapter 3, Title 14 of the California Code of Regulations as this action is to assure maintenance, restoration, enhancement, or protection of the environment.

6. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water Board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken falls on a Saturday, Sunday, state holiday, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at:
<http://www.waterboards.ca.gov/publicnotices/petitions/waterquality> or will be provided upon request.
7. **Request for Extension of Time.** If for any reason, the Discharger is unable to perform any activity or submit any document in compliance with the schedule set forth herein, or in compliance with any work schedule submitted pursuant to this Order and approved by the Executive Officer, the Discharger may request, in writing, an extension of the time specified. The extension request shall include justification for the delay. An extension may be granted only by revision of or amendment to this Order.
8. **Enforcement Notification.** Failure to comply with the terms or conditions of this Cleanup and Abatement Order may result in additional enforcement action, which may include the imposition of administrative civil liability pursuant to California Water Code section 13350 and/or section 13268, in an amount not to exceed \$5,000 for each day in which the violation occurs under Water Code section 13304 or 13350, or referral to the Attorney General of the State of California for injunctive relief or civil or criminal liability.

Ordered by: 
for: LAURI KEMPER, P.E.
ASSISTANT EXECUTIVE OFFICER

Dated: August 8, 2011

Enclosure: Water Code section 13267 Fact Sheet

**Fact Sheet – Requirements for Submitting Technical Reports
Under Section 13267 of the California Water Code**

October 8, 2008

What does it mean when the regional water board requires a technical report?

Section 13267¹ of the California Water Code provides that "...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged...waste that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires".

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

Providing the required information in a technical report is not an admission of guilt or responsibility. However, the information provided can be used by the regional water board to clarify whether a given party has responsibility.

Are there limits to what the regional water board can ask for?

Yes. The information required must relate to an actual or suspected discharge of waste, and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The regional water board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension can be given for good cause. Your request should be submitted in writing, giving reasons. A request for a time extension should be made as soon as it is apparent that additional time will be needed and preferably before the due date for the information.

Are there penalties if I don't comply?

Depending on the situation, the regional water board can impose a fine of up to \$1,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties. A person who submits false information is guilty of a misdemeanor and may be fined as well.

What if I disagree with the 13267 requirement and the regional water board staff will not change the requirement and/or date to comply?

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of the Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Claim of Copyright or other Protection

Any and all reports and other documents submitted to the Regional Board pursuant to this request will need to be copied for some or all of the following reasons: 1) normal internal use of the document, including staff copies, record copies, copies for Board members and agenda packets, 2) any further proceedings of the Regional Board and the State Water Resources Control Board, 3) any court proceeding that may involve the document, and 4) any copies requested by members of the public pursuant to the Public Records Act or other legal proceeding.

If the discharger or its contractor claims any copyright or other protection, the submittal must include a notice, and the notice will accompany all documents copied for the reasons stated above. If copyright protection for a submitted document is claimed, failure to expressly grant permission for the copying stated above will render the document unusable for the Regional Board's purposes, and will result in the document being returned to the discharger as if the task had not been completed.

If I have more questions, who do I ask?

Requirements for technical reports normally indicate the name, telephone number, and email address of the regional water board staff person involved at the end of the letter.

¹ All code sections referenced herein can be found by going to www.leginfo.ca.gov. Copies of the regulations cited are available from the Regional Board upon request.

Lahontan Regional Water Quality Control Board

December 12, 2013

Neil and Mary De Vries
13025 Shasta Court
Rancho Cucamonga, CA 91739-1729

**CLEANUP AND ABATEMENT ORDER R6V-2013-0103 FOR N&M DAIRY,
HELENDALE, SAN BERNARDINO COUNTY, WDID NO. 6B368010004**

I am issuing Cleanup and Abatement Order (CAO) R6V-2013-0103 which replaces CAO R6V-2011-0055 and CAO R6V-2011-0055A1 in entirety. The new CAO requires the cleanup of N&M Dairy and provides for uninterrupted replacement water to residences served by private domestic wells containing concentrations of nitrate and total dissolved solids.

Your efforts are commended to stop the ongoing contamination by removing the dairy cows from the area. I also recognize how difficult this has been for your family. I am encouraged that you will complete the quarterly sampling and analysis this week and have been cooperatively working with Water Board staff to address the contaminated groundwater situation.

If you have questions or comments regarding this matter, please direct them to Eric Taxer at ETaxer@waterboards.ca.gov (530) 542-5434 or to Scott Ferguson at SFerguson@waterboards.ca.gov (530) 542-5432.



PATTY Z. KOUYOUMDJIAN
EXECUTIVE OFFICER

Enclosure: Cleanup and Abatement Order No. R6V-2013-0103
Settlement Agreement and Stipulation for Entry of Order No. R6V-2013-0075

cc: N&M Mailing List

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

CLEANUP AND ABATEMENT ORDER NO. R6V-2013-0103

WDID NO. 6B368010004

**REQUIRING NEIL AND MARY DE VRIES
TO CLEAN UP AND ABATE THE EFFECTS OF DISCHARGING NITRATE
CONTAMINANTS TO THE GROUNDWATERS OF THE MOJAVE RIVER
HYDROLOGIC UNIT**

_____ San Bernardino County _____

The California Regional Water Quality Control Board, Lahontan Region (Water Board) finds:

FINDINGS

N&M Dairy Facility

1. Neil and Mary de Vries as the operators of N&M Dairy and the trustees of the Neil and Mary de Vries Family Trust (hereafter the "Discharger") own a 909-acre property adjacent to the Mojave River, located at 18200 and 36001 Lords Road, and on Indian Trails and Wild Road, in Helendale, San Bernardino County. The property includes San Bernardino County Assessor's Parcel Numbers 466-041-01, -17, and -20 through -23; parcel numbers 466-091-15, -17, and -26; parcel numbers 466-101-06, and 07; and parcel number 466-111-02.
2. On June 13, 2001, the Water Board adopted Board Order No. 6-01-38, Revised Waste Discharge Requirements, for dairy-related wastes discharges (e.g., cow manure and urine in corral areas, dairy wash water discharged to unlined lagoons, feed, storm water runoff discharged to unlined depressions/basins) at the N&M Dairy (Dairy). Board Order No. 6-01-38 requires water quality protective measures, prohibits waste management, treatment, and discharges from the Dairy causing exceedances of water quality objectives for groundwater and surface water, and prohibits the creation of nuisance and/or pollution conditions. Board Order No. 6-01-38 also includes Monitoring and Reporting Program No. 01-38 that, in part, requires groundwater monitoring to evaluate the impacts of dairy-related waste discharges on groundwater quality.

Discharge Findings

3. Water Board staff sampled residential wells in the vicinity of several dairy facilities, including four near N&M Dairy, between January 7, 2010 and March 9, 2010. The results of that sampling effort, shown in the following table, indicate that N&M Dairy is a source of nitrate and total dissolved solids (TDS) contaminants in groundwater that exceed Maximum Contaminant Levels and adversely affect area residential drinking water wells.

Location	Nitrate as N (mg/L)	TDS (mg/L)
Up-gradient Residential Well at 17950 Lords Road (sampled February 26, 2010)	1.6	310
Up-gradient Residential Well at 29442 Bullion Road (sampled February 26, 2010)	0.23	420
Down-gradient Residential Well at 19741 National Trail Highway (sampled March 9, 2010)	18	810
Down-gradient Residential Well at 19456 National Trail Highway (sampled January 7, 2010)	18	780
Maximum Contaminant Level	10	500 (recommended limit) 1,000 (upper limit) 1,500 (short term limit)

4. On October 21, 2010, the Water Board issued Investigative Order No. R6V-2010-0044 (2010 Investigative Order) requiring the Discharger provide a workplan to investigate the extent and occurrence of nitrate and TDS in domestic water supply wells that could be affected by waste discharges from the Dairy and to summarize the results of the groundwater investigation. The associated monitoring results indicate that the impacted groundwater migrated beyond the Dairy and adversely affected a number of residential wells down-gradient of the Dairy¹.
5. The "Final Report - Neighboring Domestic Supply Well Sampling," dated June 4, 2011 (June 4, 2011 Report), submitted by the Discharger to the Water Board on June 7, 2011, identifies the presence of nitrate in groundwater down-gradient from the Dairy. The June 4, 2011 Report also identifies nitrate contaminants in groundwater originating at the Dairy. The groundwater sampling results provided in the June 4, 2011 Report document nitrate and TDS concentrations down-gradient and cross-gradient from the Dairy exceeding the Maximum Contaminant Level for nitrates and the Secondary Maximum Contaminant level for TDS. The June 4, 2011 Report states (page 6) that the, "...pattern of nitrate observed in the N&M Dairy monitoring wells, coupled with the results of neighboring domestic supply wells (showing the highest nitrate in wells near agricultural fields), indicates that agricultural operations may be the largest contributor to the nitrate observed in the groundwater beneath the general study area."

¹ Finding No. 15 of Amended CAO No. R6V-2011-0055-A1 states that approximately eight (8) down-gradient residential wells exceeded the nitrate as nitrogen MCL (10 mg/L), and approximately 11 down-gradient residential wells exceeded the TDS recommended SMCL (500 mg/L).

6. In its October 27, 2011 report, the Discharger asserts that the Dairy's irrigated fodder crops fields are likely the most significant contributor to nitrate in the groundwater compared to other potential dairy waste sources (corrals, wastewater ponds, and stockpiled manure).
7. The table below documents ranges of contaminant levels in on-site monitoring wells that were reported in the Discharger's self-monitoring reports over the last five years.

Sample Date	Range of Nitrate as Nitrogen Concentrations (mg/L)	Range of TDS Concentrations (mg/L)
May 21, 2008	5.3 to 28.4	509 to 3,560
December 22, 2008	3.9 to 31.9	741 to 3,410
May 4, 2009	3.0 to 32.2	621 to 3,210
December 9, 2009	8.6 to 16.4	1,100 to 3,620
April 26, 2010	8.5 to 14.1	802 to 4,440
December 9, 2010	8.5 to 16.4	848 to 3,020
May 9, 2011	7.4 to 20.5	508 to 3,230
December 5, 2011	1.7 to 37.2	526 to 3,180
May 16, 2012	1.7 to 32.0	442 to 3,120
December 4, 2012	1.3 to 28.4	458 to 3,710

8. Water Code section 13050(l) defines "pollution" as an alteration of the water quality to a degree that unreasonably affects either beneficial uses or facilities that serve these beneficial uses.
9. Water Board staff finds that N&M Dairy has discharged waste into waters of the state in violation of Basin Plan requirements and has caused or contributed waste to be discharged to groundwater beneath and down-gradient of the Dairy. The discharge of waste creates or threatens to create a condition of pollution where nitrate as N and TDS concentrations beneath and down-gradient of the Dairy exceed drinking water standards. The affected groundwater is no longer useable for drinking or domestic supply purposes. This alteration is unreasonable where the aquifer, which is currently designated and used for drinking water, is no longer suitable for this beneficial use. The Dairy's discharges have unreasonably affected the water for municipal and domestic supply beneficial uses, and therefore, based on the evidence, Water Board staff finds that the Dairy has caused a condition of pollution.

Regulatory Background

10. The conditions described in Findings Nos. 3 through 9, above, constitute violations of the following waste discharge requirements specified by Board Order No. 6-01-38.

Discharge Specification I.B.2 (Chemical Constituents)

"Ground water shall not contain concentrations of chemical constituents in excess of the maximum contaminant level (MCL) or secondary maximum contaminant level (SMCL) based upon drinking water standards specified in the following provisions of Title 22 of the California Code of Regulations:

- a. Table 64431-A of Section 64431 (Inorganic Chemicals);

.

.

- e. Table 64449-B of Section 64449 (SMCLs – Ranges)."

Discharge Specification I.C.4.c

"The discharger shall not cause a pollution as defined in Section 13050 of the California Water Code, or a threatened pollution."

11. The Water Board issued Cleanup and Abatement Order (CAO) No. RV6-2011-0055 on August 2, 2011, in response to the groundwater monitoring results referenced in Finding Nos. 4 and 5, above, and the resulting violation of waste discharge requirements discussed in Finding No. 10, above. The CAO requires the Discharger to sample residential wells in a specified Study Area, provide replacement water as specified, and provide sampling reports to the Water Board on a quarterly basis.
12. The Water Board issued Amended CAO No. R6V-2011-0055-A1 on January 19, 2012 to (1) revise the sampling/reporting frequency and constituents to be analyzed, (2) revise the nitrate as N and TDS concentration action limits for providing replacement water, (3) revise the monitoring sites; (4) revise the response time for providing replacement water; and (5) revise the study area boundaries.
13. On December 12, 2013, the Water Board adopted Board Order No. R6V-2013-0075, Settlement Agreement and Stipulation for Entry of Order that included consideration, in part, of the following:
- a. Acknowledgment that the Discharger's dairy operations will no longer be a future threat to water quality where the Discharger is in the process of voluntarily closing the Dairy;
- b. The requirement to properly remove and dispose of the remaining dairy-related waste (i.e., manure and hardpack from the corrals, wash water lagoon contents, manure stockpiles, manure spread on non-cultivated lands);

- c. Providing uninterrupted replacement water to those residents within the Study Area whose wells produce groundwater nitrate as N concentrations of or above 7 mg/L, and/or groundwater TDS concentrations of or above 815 mg/L;
 - d. Continuing to monitor Facility monitoring wells and residential wells down-gradient of the Facility;
 - e. Replacing CAO Nos. R6V-2011-0055 and R6V-2011-0055-A1 to continue requiring the Discharger to provide replacement water and to consolidate and revise monitoring and reporting requirements for the Discharger.
14. CAO No. R6V-2011-0055 and its amendment will be replaced by this Order. This Order (1) reflects that dairy operations at the property have ceased and dairy-related wastes have been removed and/or any remaining waste is undergoing composting; (2) consolidates and modifies groundwater monitoring requirements from Amended CAO No. R6V-2011-0055-A1 and Monitoring and Reporting Program No. 01-38; and (3) identifies decision points and threshold limits for determining when supplying replacement water must be initiated or can be discontinued. This Order also requires the submittal of the monitoring report for groundwater monitoring conducted in December 2013, as required by Amended CAO No. R6V-2011-0055-A1.

REGULATORY AUTHORITY

15. Water Code section 13304, subdivision (a) states:

"Any person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by the state board or a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant."

16. The Findings above, establish that the Discharger has discharged waste into groundwater, a water of the state, in violation of its waste discharge requirements. As elaborated in Finding No. 8, the discharge of waste to groundwater has also created a condition of pollution where nitrate as N and TDS concentrations exceed drinking water standards and groundwater is no longer useable for drinking or domestic supply purposes. Such discharges have unreasonably affected the

municipal and domestic beneficial uses of the groundwater. Therefore, upon a finding that the Discharger has caused a condition of pollution, the Water Board is authorized to issue this Cleanup and Abatement Order pursuant to Water Code section 13304.

17. Water Code section 13267, subdivision (b) states:

"In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports."

18. The Findings above establish that the Discharger has discharged waste to waters of the Lahontan Region. The Water Board is authorized to require technical or monitoring reports to evaluate the continued impacts of the waste discharges to the area groundwater.

19. The Discharger has ceased dairy operations and is in the process of removing the remaining portions of the dairy waste from the property. Barring potential new pollution sources, it is expected that closing the Dairy will result in decreased groundwater concentrations of nitrate as N and TDS. The monitoring reports required by this Order are necessary to:

- a. Evaluate the effects on groundwater quality from the removal of dairy waste and dairy operations on the property;
- b. Monitor the progress towards restoring the drinking water beneficial use; and
- c. Ensure replacement water is supplied to residents within the Affected Area.

20. Issuance of this Order is an enforcement action taken by a regulatory agency and is exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code, section 21000 et seq.) pursuant to California Code of Regulations, Chapter 3, title 14, section 15321, subdivision (a)(2).

THEREFORE, IT IS HEREBY ORDERED that Cleanup and Abatement Order No. R6V-2011-0055 and its amendment, Cleanup and Abatement Order No. R6V-2011-0055-A1, are hereby rescinded, and that pursuant to Water Code sections 13304 and 13267, the Discharger shall comply with the following technical, monitoring, and reporting requirements:

A. ORDERS

1. Supply uninterrupted replacement drinking water service (i.e., bottled water or equivalent) for consumption and cooking to all residences served by private domestic wells within the Affected Area (see Attachment A) where nitrate as N concentrations have been detected at or above 7 mg/L, or where TDS concentrations have been detected at or above 815 mg/L. Furthermore, the Discharger shall supply uninterrupted replacement drinking water service to any new additional residences in the Affected Area (Attachment A) served by private domestic wells affected as soon as possible but no later than two weeks of determining that the private well at the residence exhibits a nitrate as N concentration of 7 mg/L or above for the first time, or exhibits a TDS concentration of 815 mg/L or above for the first time.

The Affected Area (Attachment A) is defined by the following boundaries in the USGS Wild Crossing and Hodge 7.5-minute quadrangles: the western edge begins 0.2 miles west of the intersection of Indian Trails Road and Lords Road. The eastern boundary ends 0.25 miles west of the intersection of Hinkley Road and National Trails Highway. The northern boundary follows the approximate center line of the Mojave River north of National Trails Highway. The southern boundary is approximately 0.27 miles south of National Trails Highway and runs parallel to National Trails Highway.

The Water Board has the authority to amend this Order as appropriate when information submitted by the Discharger, or from other appropriate sources, warrants a modification of the current Affected Area boundary (see Attachment A). Such modification may result in either a decrease or increase of the Affected Area boundary. Groundwater monitoring and replacement water requirements will also change consistent with any such modification of the Affected Area boundary.

2. No later than **January 15, 2014**, submit to the Water Board a monitoring report containing the following information for the December 2013, sampling event that occurred under the terms of Cleanup and Abatement Order No. R6V-2011-0055, as amended:
 - a. Laboratory results and associated quality assurance/control documentation from the respective sampling event conducted the month prior to the reporting period;
 - b. List of all residences that are receiving uninterrupted replacement water; and

- c. Written documentation of efforts to sample wells for those property owners/residents that have declined to have their residential wells sampled.
3. **Thirty (30) days prior to each groundwater sampling event** described in Directive No. 4, below, the Discharger shall visit all well locations in the Affected Area whose respective property owners and/or property tenants (including new property owners and new tenants) have not already been notified of the potential for elevated nitrate and TDS concentrations in the groundwater, or have not already provided permission for well sampling. The Discharger shall provide the respective property owners and/or property tenants notice of the following:
- a. How beneficial uses are affected from elevated nitrate and TDS in groundwater at levels greater than that allowed under the Basin Plan, and information (e.g. pamphlets or flyers already prepared by CDPH or other local health agency) regarding the potential health concerns from consuming water with elevated nitrate concentrations;
 - b. A request for consent to sample the domestic supply well(s) providing water to the property occupant (owner and/or tenant) at a maximum frequency of every nine months; and
 - c. The existing contact information of the property owner and/or tenant along with a request for updated contact information.

In cases where the Discharger cannot access the property for purposes of notification, a written notice will be left in a prominent location at the property. If any property owner or tenant declines to have their private domestic water well sampled, such a decision, including a nonresponsive to the notice, must be documented and submitted with the associated monitoring report (described in Directive No. 5, below).

4. No later than **September 10, 2014, and every nine months thereafter (i.e., June 2015, March 2016, December 2016, etc.)** collect groundwater samples from the following monitoring wells, in addition to any identified pursuant to Directive No. 3, above:
- a. Former N&M Dairy Facility Monitoring Wells Nos. MW-1, MW-2, MW-3, and MW-4.
 - b. Domestic Wells neighboring the former N&M Dairy Facility, Well Nos. 1, 3B, 4, 5, 7, 8, 8A, 9, 9A, 9D, 11, 12, 13, 14, 17, 18, 19, 22, 23, 24, 25, 33, 41, 50, 51, 52, 53, 54, 55, 56, and 57.

All groundwater samples shall be analyzed for nitrate as N and TDS by a California-certified laboratory.

5. If the monitoring results identify a well that exhibits a nitrate as N concentration at or exceeding 7 mg/L for the first time, or if the monitoring results of the monitoring identify a well that exhibits a TDS concentration at or exceeding 815 mg/L for the first time, the Discharger must notify the Lahontan Water Board of this information **within 48 hours of the Discharger or their representative becoming aware of such monitoring results.**
6. By **October 15, 2014, and every nine months thereafter (i.e., July 15, 2015, April 15, 2016, January 15, 2017, etc.)** submit to the Lahontan Water Board a monitoring report containing the following information:
 - a. Laboratory results and associated quality assurance/control documentation from the respective sampling event conducted the month prior to the reporting period;
 - b. List of all residences that are receiving uninterrupted replacement water; and
 - c. Written documentation that those property owners/residents have declined to have their residential wells sampled.
7. The Discharger may cease providing uninterrupted replacement water at any individual residence only when one of the two following conditions is met at the specific individual residence's well being evaluated:
 - a. Groundwater nitrate as nitrogen and TDS concentrations are below 7 mg/L and 815 mg/L, respectively, for two consecutive nine-month sampling periods; or
 - b. Groundwater nitrate as nitrogen and TDS concentrations are below 7 mg/L and 815 mg/L, respectively, for four consecutive three-month sampling periods (i.e., the Dischargers may elect to collect groundwater samples on a quarterly basis and submit the results to the Lahontan Water Board with notification that uninterrupted replacement water will no longer be provided based upon the monitoring results).

The Discharger must notify the respective property owner/tenant and submit the test result documentation to the Lahontan Water Board.

REPORTING REQUIREMENTS

1. **Signatory Requirements.** All reports required under this Cleanup and Abatement Order shall be signed and certified by the Discharger or by a duly authorized representative of the Discharger and submitted to Water Board staff. A person is a duly authorized representative of the Discharger only if: (1) the authorization is made in writing by the Discharger and (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

2. **Certification.** Include the following signed certification with all reports submitted pursuant to this Order:

"I certify under penalty of perjury under the laws of the State of California that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

3. **Report Submittals.** All monitoring and technical reports required under this Order shall be submitted to:

California Regional Water Quality Control Board – Lahontan Region
14440 Civic Drive, Suite 200
Victorville, CA 92392

California Regional Water Quality Control Board – Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, CA 96150

B. NOTIFICATIONS

1. **Cost Recovery.** Pursuant to Water Code section 13304, the Water Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Water Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial actions required by this Order.
2. **Requesting Administrative Review by the State Water Board.** Any person aggrieved by an action of the Water board that is subject to review as set forth in Water Code section 13320, subdivision (a), may petition the State Water Resources Control Board (State Water Board) to review the action. Any petition must be made in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition within 30 days of the date the action was taken, except that if the thirtieth day following the date the action was taken fall on a Saturday, Sunday, or state holiday, then the State Water Board must receive the petition by 5:00 p.m. on the next business day. Copies of the law and regulation applicable to filing petitions may be found on the internet at http://www.waterboards.ca.gov/public_notices/petitions/water_quality/index.shtml or will be provided upon request.

3. **Modifications.** Any modification to this Order shall be in writing and approved by the Executive Officer, including any potential extensions. Any written extension request by the Discharger shall include justification for the delay.
4. **Enforcement Notification.** Failure to comply with the requirements of this Cleanup and Abatement Order may result in additional enforcement action, which may include pursuing administrative civil liability pursuant to Water Code sections 13268, 13350, and/or 13385, or referral to the Attorney General of the State of California for such legal action as she may deem appropriate.
5. **No Limitation of Water Board Authority.** This Order in no way limits the authority of this Water Board to institute additional enforcement actions or to require additional investigation and cleanup of the site consistent with the Water Code. This Order may be revised as additional information becomes available.

Ordered by: 
PATTY Z. KOUYOUMDJIAN
EXECUTIVE OFFICER

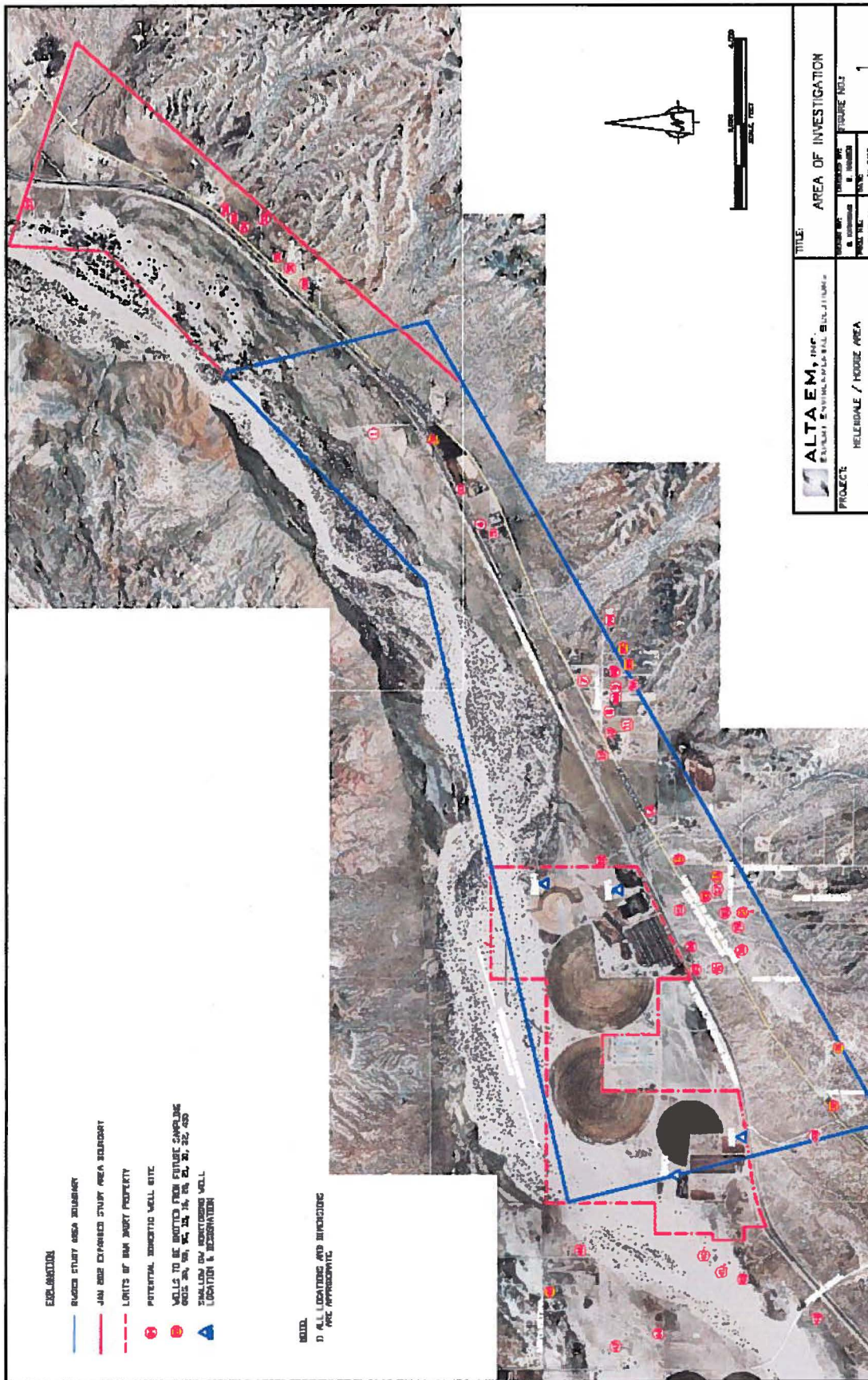
Dated: Dec. 12, 2013

Attachments: A. Map of Affected Area
B. Water Code section 13267 Fact Sheet

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ATTACHMENT A
MAP OF AFFECTED AREA

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ATTACHMENT B

WATER CODE SECTION 13267 FACT SHEET

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**Fact Sheet – Requirements for Submitting Technical Reports
Under Section 13267 of the California Water Code
October 8, 2008**

What does it mean when the regional water board requires a technical report?

Section 13267¹ of the California Water Code provides that "...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged...waste that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires".

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

Providing the required information in a technical report is not an admission of guilt or responsibility. However, the information provided can be used by the regional water board to clarify whether a given party has responsibility.

Are there limits to what the regional water board can ask for?

Yes. The information required must relate to an actual or suspected discharge of waste, and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The regional water board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension can be given for good cause. Your request should be submitted in writing, giving reasons. A request for a time extension should be made as soon as it is apparent that additional time will be needed and preferably before the due date for the information.

Are there penalties if I don't comply?

Depending on the situation, the regional water board can impose a fine of up to \$1,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties. A person who submits false information is guilty of a misdemeanor and may be fined as well.

What if I disagree with the 13267 requirement and the regional water board staff will not change the requirement and/or date to comply?

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of the Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Claim of Copyright or other Protection

Any and all reports and other documents submitted to the Regional Board pursuant to this request will need to be copied for some or all of the following reasons: 1) normal internal use of the document, including staff copies, record copies, copies for Board members and agenda packets, 2) any further proceedings of the Regional Board and the State Water Resources Control Board, 3) any court proceeding that may involve the document, and 4) any copies requested by members of the public pursuant to the Public Records Act or other legal proceeding.

If the discharger or its contractor claims any copyright or other protection, the submittal must include a notice, and the notice will accompany all documents copied for the reasons stated above. If copyright protection for a submitted document is claimed, failure to expressly grant permission for the copying stated above will render the document unusable for the Regional Board's purposes, and will result in the document being returned to the discharger as if the task had not been completed.

If I have more questions, who do I ask?

Requirements for technical reports normally indicate the name, telephone number, and email address of the regional water board staff person involved at the end of the letter.

¹ All code sections referenced herein can be found by going to www.leginfo.ca.gov. Copies of the regulations cited are available from the Regional Board upon request.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

In the matter of:

**N&M Dairy
Neil and Mary de Vries**

Order No. R6V-2013-0075

**Settlement Agreement and Stipulation for
Entry of Order**

Section I: INTRODUCTION

This Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order ("Stipulation") is entered into by and between the California Regional Water Quality Control Board, Lahontan Region Prosecution Staff ("Prosecution Staff"), and Neil and Mary de Vries (Discharger, dba "N&M Dairy") ("Discharger") (collectively "Parties") and is presented to the Lahontan Regional Water Quality Control Board ("Lahontan Water Board") for adoption as an Order, by settlement, pursuant to Government Code section 11415.60.

Section II: RECITALS

1. Neil and Mary de Vries operate N&M Dairy and as trustees of the Neil and Mary de Vries Family Trust also own the 909-acre site adjacent to the Mojave River, located at 36001 Lords Road and 18200 Lords Road, and on Indian Trail and Wild Road, in Helendale in San Bernardino County ("Facility" or "Dairy"). The N&M Dairy includes San Bernardino County Assessor's parcel numbers 466-041-01, -17, and -20 through -23; parcel numbers 466-091-15, -17, and -26; parcel numbers 466-101-06, and 07; and parcel number 466-111-02. A Facility location map that shows the location of the N&M Dairy parcels is provided in Exhibit A.
2. The barn, corrals, and feedlots of the Dairy are located on approximately 45 acres. Most of the remaining 864 acres of land are used for various purposes related to the dairy, including temporarily stockpiling of manure prior to off-site disposal and growing fodder crops. A portion of the manure generated at the Facility has been periodically applied to the agricultural fields where the fodder crops are grown.
3. Dairy waste includes constituents in manure, wash water, storm water, animal feed, and other materials that are produced or used at the Dairy and have the potential to be released into the environment and affect water quality.

4. Discharger is subject to Waste Discharge Requirements, Board Order No. 6-01-38, (WDRs 6-01-38, or Facility permit) prescribing waste discharge requirements including manure application rates and design criteria for new waste containment structures.
5. On July 2, 2010 the Lahontan Water Board issued Cleanup and Abatement Order No. R6V-2010-0029 (CAO 0029) directing the Discharger to correct nuisance conditions resulting from the wash water discharge and on-site manure management (odor and flies) by removing excess manure and developing a Nutrient Management Plan and a Best Management Practices Plan for the N&M Dairy. CAO 0029 was amended on December 2, 2010 (CAO 0029-A1) to allow an additional year to remove all excess manure by October 19, 2011.

CAO 0029 was amended a second time (CAO 0029-A2) on December 13, 2011, extending the October 19, 2011 compliance date for removing excess manure to January 17, 2012. This amendment also established minimum standards and reporting requirements for monthly manure removal. CAO 0029-A2 contains the following pertinent requirements.

- a. Directive No. 4 in CAO 0029-A1, as amended by CAO 0029-A2, requires the Discharger to remove all excess manure by January 17, 2012.
 - b. Directive No. 2 in in CAO 0029-A2 requires the Discharger to submit monthly manure removal progress reports by the third day of each month starting January 3, 2012, until all excess manure is removed.
6. On August 8, 2011, the Lahontan Water Board issued Cleanup and Abatement Order No. R6V-2011-0056 (CAO 0056) directing the Discharger to correct continued and ongoing nuisance conditions of odors and flies from improper wash water and storm water discharges and manure management practices. CAO 0056 also directed the Discharger to address groundwater pollution originating from its unlined wastewater ponds.

Directive No. 7 of CAO 0056 requires the Discharger complete grading of all drainage systems and corrals to convey storm water from the corrals and eliminate ponding within the corrals by December 15, 2012.

7. The Facility permit requires the Discharger to monitor four on-site groundwater monitoring wells on a semi-annual basis and report the results to the Lahontan Water Board. The Discharger's self-monitoring reports indicate the Facility has contaminated and/or caused a condition of pollution to groundwater where nitrates and salts (total dissolved solids, or TDS) exceeded maximum contaminant levels (MCLs).

8. On August 2, 2011, the Lahontan Water Board issued Cleanup and Abatement Order No. R6V-2011-0055 (CAO 0055), amended by Order No. R6V-2011-0055-A1 (CAO 0055-A1). The Orders direct the Discharger to supply interim uninterrupted replacement water service for consumption and cooking to residences served by private domestic wells that have been adversely impacted by concentrations of nitrates and/or total dissolved solids (TDS or salts).
9. The Discharger is alleged to have violated Directive No. 4 of CAO 0029-A1, as amended by CAO 0029-A2, Directive No. 2 of CAO 0029-A2 and Directive No. 7 of CAO-0056, resulting in liabilities pursuant to Water Code sections 13350 and 13268 for violating a cleanup and abatement order issued, reissued, or amended by the Lahontan Water Board. Below is a summary of the violations.
 - a. Violation 1: The Discharger violated Directive No. 4 of CAO 0029-A1 (as amended by CAO 0029-A2) by failing to remove all excess manure from the facility by January 17, 2012. A minor amount of excess older manure remained at the facility in December 2012.
 - b. Violation 2: The Discharger violated Directive No. 2 of CAO 0029-A2 by submitting the March through September, 2012, monthly manure removal progress reports past their respective due dates (the third day of every month). No manure was being removed during this period of time. The progress reports were later submitted on October 26, 2012.
 - c. Violation 3: The Discharger violated Directive No. 7 of CAO 0056 by failing to complete drainage and corral grading and eliminate ponding in corrals by December 15, 2012.
10. On November 17, 2009, the State Water Board adopted Resolution No. 2009-0083 amending the Water Quality Enforcement Policy ("Enforcement Policy"). The Enforcement Policy was approved by the Office of Administrative Law and became effective on May 20, 2010. The Enforcement Policy establishes a methodology for assessing administrative civil liability. The Prosecution Staff considered the methodology set forth in the Enforcement Policy for Violations 1 through 3, as shown in Exhibit B, which is attached hereto and incorporated by reference as though fully set forth herein.
11. The Parties have engaged in settlement negotiations and agree to fully settle the matter without administrative or civil litigation and by presenting this Stipulation to the Lahontan Water Board for adoption as an Order by settlement, pursuant to Government Code section 11415.60. The Parties agree to settle the matter without any further investigation or analysis of culpability or adequacy of the allegations. In settling this matter, the Discharger does not admit to any of the findings in this Order that it has been or is in violation of the Water Code, or any other federal, state, or local law or ordinance, provided, the Discharger agrees that in the event of any future enforcement actions by the Lahontan Water Board, this Order may be used as

evidence of a prior enforcement action consistent with Water Code section 13267. The amount of administrative civil liability imposed pursuant to this Stipulation and Order is the amount calculated by the Prosecution Staff using the State Water Board's Enforcement Policy. The resolution of the alleged violations is fair and reasonable and fulfills all of its enforcement objectives, that no further action is warranted concerning Violations 1 through 3, except as provided in this Stipulation and Order, and that this Stipulation and Order is in the best interest of the public.

12. Additional Settlement Considerations: The Parties acknowledge the following in agreeing to this Settlement:

- a. The Discharger has removed the cows from the Dairy and will be closing its operations. Considerations related to the Dairy closing include, the cost of approximately \$250,000 to close the Dairy, the removal of manure, a potential source of the nuisance conditions, and the beneficial reuse of that manure for composting, the elimination of a source of nitrate and salts to soil and groundwater, and elimination of potential wastewater discharges to groundwater and surface water from the Dairy operations, the removal of a potential income-stream from the Discharger.
- b. The Discharger has proposed a Supplemental Environmental Project (SEP) consisting of the creation of a conservation easement of a portion of the Dairy property within and adjacent to the Mojave River's active channel. The conservation easement may reduce the value of the property with the extinguishment of the property's development rights.
- c. The Lahontan Water Board approves modifications or substantially similar modifications of the monitoring requirements in CAO 0055-A1 and the monitoring and reporting program for WDRs 6-01-38 as follows:
 - i. Domestic Wells Nos. 3a, 9b, 9c, 15, 16, 20, 21, 31, and 32 as identified in the Dairy's "Domestic Supply Well Sampling Report" dated April 29, 2013, will be removed from the monitoring program, because they are located within a tight cluster of domestic wells that can be represented by a single well and the Discharger's data has shown historically insignificant detections of nitrate and TDS.
 - ii. Domestic Wells Nos. 26, 27, 28, 29, and 30, as identified in the N&M Dairy's "Domestic Supply Well Sampling Report" dated April 29, 2013, will be removed from the monitoring program, because they are abandoned inoperable wells.
 - iii. Domestic Wells Nos. 7a, 42, 43, 44, 45, 46, and 47, as identified in the Dairy's "Domestic Supply Well Sampling Report" dated April 29, 2013, will be removed from the monitoring program because they are out of the study area.

- iv. A trigger for TDS for domestic well water replacement at 815 mg/L rather than 500 mg/L as required under R6-2011-0055.
- v. Monitoring frequency for Facility and other wells in the monitoring program(s) will be updated to every nine (9) months.
- d. Lahontan Water Board staff will consider a reduction of the area of study for replacement water, otherwise known as the Revised Affected Area or Study Area, as appropriate, based on information obtained from Discharger and other sources. In the meantime, Discharger will continue to provide replacement drinking water as required under CAO 0055-A1.
- e. At a future Lahontan Water Board Meeting after the Discharger complies with the Dairy Closure Plan, Lahontan Water Board staff intend to propose a rescission of the Waste Discharge Requirements No. 6-01-38.
- f. Lahontan Water Board staff propose to rescind CAO 0055-A1 Investigative Order No. R6V-2010-044 and propose the Executive Officer to issue a new Cleanup and Abatement Order containing the above monitoring and replacement water trigger modifications.
- g. The total adjusted monetary assessment is \$376,850 as a result of negotiations with the Discharger pursuant to Government Code section 11415.60 and Page 22 of the Enforcement Policy. Due to recent administrative considerations, staff costs are not being recovered as part of this settlement.
- h. As a negotiated term pursuant to Government Code section 11415.60, the parties agree that failure by the Discharger to comply with the terms of the Conservation Easement including the prohibited activities shall result in a penalty of \$1,000 per day of violation.

Section III: STIPULATIONS

The Parties incorporate Paragraphs 1 through 12 by this reference, as if set forth fully herein, and stipulate to entry of this Order as set forth below, and recommend that the Lahontan Water Board issue this Stipulated Order to effectuate the settlement:

- 13. Administrative Civil Liability:** The Discharger hereby agrees to the imposition of an administrative civil liability totaling **\$376,850**. The Discharger agrees to remit ONE HUNDRED EIGHTY EIGHT THOUSAND FOUR HUNDRED TWENTY-FIVE DOLLARS (\$188,425) by check payable to the *Waste Discharge Permit Fund*. Payment is due within thirty (30) days of issuance of this Order. Further, the Parties agree that the remaining \$188,425 administrative civil liability shall be suspended pending completion of a supplemental environmental project (SEP) as outlined in this Stipulation and Order.

The Discharger shall indicate on the check the number of this Order. The Discharger shall send the original signed check to the State Water Resources Control Board, attention: Accounting, P.O. Box 100, Sacramento, CA 95812-0100 and shall send a copy to Lauri Kemper, Assistant Executive Officer, Lahontan Regional Water Quality Control Board, 2501 Lake Tahoe Boulevard, South Lake Tahoe, CA 96150.

14. SEP Definitions

- a. "Designated Lahontan Water Board Representative" – the representative from the Lahontan Water Board responsible for oversight of the supplemental environmental project (SEP). The contact information for this representative will be determined by the Lahontan Water Board Executive Officer and will be transmitted to the Discharger.
- b. "Enforcement Coordinator" – The person on the Lahontan Water Board staff who is responsible for enforcement coordination.
- c. "SEP Completion Date" – The date in which the SEP will be completed in its entirety.

15. Description of the SEP

Background: The Mojave River is normally dry, except for a small stretch of perennial flow and periods of flow after intense or extended storms. The Mojave River Floodplain Aquifer, which flows beneath the river's surface and adjacent floodplain, is the primary source of water to meet agricultural, municipal and domestic needs in the area. The Facility is located adjacent to, and partially within, the floodplain of the Mojave River.

SEP Project: The Parties have agreed the SEP Amount will be credited towards the creation of a Conservation Easement in perpetuity on a portion of the Dairy property within and adjacent to the Mojave River's active channel. The SEP will allow for the area placed within the Conservation Easement to naturally return to a fully functioning river floodplain and adjacent habitat area, thereby improving floodplain function, water quality and beneficial uses. In addition, the Conservation Easement serves to buffer any future agricultural, commercial and/or industrial uses at the Facility from the Mojave River, which could reduce or prevent the additional loading of nutrients into waters of the state in the future, thereby benefitting water quality within the Mojave River watershed. The Conservation Easement will restrict the Dischargers' ability to use the land for farming and for other uses as detailed within the SEP Project Description (Exhibit C) in order to allow the land to return to natural floodplain habitat. The existing water wells and related infrastructure will be allowed to remain and in active use.

The SEP boundaries, depicted in Exhibit C will include approximately 310 acres to be finalized at the conservation easement demarcation milestone. The SEP boundaries include areas within the active channel of the Mojave River, and areas that are irrigated agricultural fields within the floodplain or adjacent to the floodplain of the Mojave River.

The SEP meets the qualification criteria as specified in the State Water Board's Policy on Supplemental Environmental Projects, February 3, 2009 (SEP Policy), as follows:

- The SEP Amount identified in this Order (\$188,425) does not exceed 50 percent of the total adjusted monetary assessment.
- The SEP is not otherwise required of the Discharger, as it has no permit, order or other requirement to set aside its land for conservation purposes, and the SEP is not mitigation to offset the impacts of the Discharger's projects.
- The SEP benefits ground water quality through removing an alleged source of salts and nutrients pollution in this closed ground water basin.
- The SEP meets the SEP Policy's nexus criteria where there is a relationship between the nature and location of the violation and the nature and location of the SEP. The violations relating to the failure to maintain management practices at N&M Dairy are directly associated with the SEP, which is to prohibit the use of the land as a dairy or other agricultural operation and allow the area to return to the natural floodplain habitat. There is also an immediate nexus between the location of the violation and the SEP, where the SEP is located on the same property that the violations occurred.
- The SEP does not directly benefit the Lahontan Water Board, its members, its staff or family of members of staff.

Exhibit C provides additional detail and tasks that must be completed and is incorporated herein.

SEP Milestones: The following SEP milestones constitute tasks that must be completed by dates certain. The SEP shall be completed in its entirety no later than July 31, 2014 (SEP Completion Date). If other circumstances beyond the reasonable control of the Discharger prevent completion of the SEP by that date, the Assistant Executive Officer may extend the SEP Completion Date. The Discharger must send its request for an extension in writing with the necessary justification to the Assistant Executive Officer.

a. **Conservation Easement Boundary Demarcation Proposal**

A proposal and plan to identify on the land the boundaries of the Conservation Easement must be submitted by **January 31, 2014** for the Lahontan Water Board Executive Officer's approval.

b. **Conservation Easement Boundary Survey**

A report consisting of maps, plats, descriptions or other documents produced as a result of the boundary survey must be submitted to the Lahontan Water Board by **March 31, 2014**.

c. **Completion of Conservation Easement Demarcation**

Documentation, consisting of photographs or other proof, that the Conservation Easement has been demarcated in accordance with the Lahontan Water Board-accepted Demarcation Proposal must be submitted to the Lahontan Water Board by **May 30, 2014**.

d. **Terms of Conservation Easement**

The terms of the conservation easement must be submitted for the Lahontan Water Board Executive Officer's approval by **May 30, 2014**. If the Lahontan Water Board Executive Officer does not approve the terms of the conservation easement by **June 30, 2014**, a request can be made to the Lahontan Water Board Executive Officer for consideration to extend the due date for the Conservation Easement.

e. **Recording the Conservation Easement**

Proof of the execution of the Conservation Easement must be submitted to the Lahontan Water Board by **July 31, 2014**. The Conservation Easement must be recorded with the County Recorder by **July 31, 2014**.

16. Publicity Associated with SEP: Whenever the Discharger publicizes one or more elements of the SEP, it shall state in a **prominent manner** that the project is being undertaken as part of the settlement of an enforcement action by the Lahontan Water Board against the Discharger.

17. Site Inspections: Discharger shall permit inspection of the SEP by the Lahontan Water Board staff at any time without notice during normal business hours.

18. Audits and Certification of Environmental Project

a. **Certification of Performance of Work (Final Completion Report)**

On or before 60 days after completion of the SEP, the Discharger shall submit a report, submitted under penalty of perjury, stating that the SEP has been completed in accordance with the terms of this Stipulation. Such documentation must include a copy of document creating the Conservation Easement, and may include photographs, invoices, receipts, certifications, and other materials

reasonably necessary for the Lahontan Water Board to evaluate the completion of the SEP by the Discharger.

b. Third Party Audit

If the Designated Lahontan Water Board Representative obtains information that causes the representative to reasonably believe that the Discharger has not adequately completed any of the work in the SEP Workplan, the Designated Lahontan Water Board Representative may require, and the Discharger shall submit, at its sole cost, a report prepared by an independent third party(ies) acceptable to the Lahontan Water Board staff providing such party(ies)'s professional opinion that Discharger has completed the SEP as claimed by the Discharger. In the event of such an audit, the Discharger agrees that it will provide the third-party auditor with access to all documents which the auditor requests. Such information shall be provided to the Designated Lahontan Water Board Representative within three (3) months of the completion of the Discharger's SEP obligations. The audit need not address any costs incurred by the Lahontan Water Board for oversight.

- 19. Lahontan Water Board Acceptance of Completed SEP:** Upon the Discharger's satisfaction of its obligations under this Stipulation and Order, the completion of the SEP and any audits, the Designated Lahontan Water Board Representative, with notice to the Enforcement Coordinator, shall send the Discharger a letter recognizing satisfactory completion of its obligations under the SEP. The letter shall terminate any further SEP obligations of the Discharger, except as identified in No. 20, below, and result in the permanent stay of the Suspended Administrative Civil Liability.
- 20. Failure to Complete the SEP:** If the SEP is not fully implemented within the SEP Completion Period required by this Stipulation and Order, as identified in Stipulation No. 15, above, the Designated Lahontan Water Board Representative shall issue a Notice of Violation. As a consequence, the Discharger shall be liable to pay the entire Suspended Administrative Civil Liability. Discharger shall not be entitled to any credit, offset, or reimbursement from the Lahontan Water Board for expenditures made on the SEP prior to the date of the "Notice of Violation" by the Lahontan Water Board. The amount of the Suspended Administrative Civil Liability owed, \$188,425, shall be brought before the Lahontan Water Board via a "Motion for Payment of Suspended Liability." Upon approval by the Lahontan Water Board, the Suspended Administrative Civil Liability amount owed shall be paid to the Waste Discharge Permit Fund within thirty (30) days after the service to the Discharger of the Lahontan Water Board's determination. In addition, the Discharger shall be liable for the Lahontan Water Board's reasonable costs of enforcement, including but not limited to legal costs and expert witness fees. Payment of the Suspended Administrative Civil Liability amount will satisfy the Discharger's obligations to implement the SEP.

- 21. Lahontan Water Board is Not Liable:** Neither the Lahontan Water Board members nor the Lahontan Water Board staff, attorneys, or representatives shall be liable for any injury or damage to persons or property resulting from acts or omissions by Discharger, its directors, officers, employees, agents, representatives or contractors in carrying out activities pursuant to this Stipulation and Order, nor shall the Lahontan Water Board, its members or staff be held as parties to or guarantors of any contract entered into by Discharger, its directors, officers, employees, agents, representatives or contractors in carrying out activities pursuant to this Stipulation and Order.

The Discharger covenant not to sue or pursue any administrative or civil claim or claims against any State Agency or the State of California, or their officers, employees, representatives, agents, or attorneys arising out of or relating to any matter expressly addressed by this Stipulation and Order or the SEP.

- 22. Compliance with Applicable Laws:** The Discharger understands that payment of administrative civil liability in accordance with the terms of this Stipulation and Order or compliance with the terms of this Stipulation and Order is not a substitute for compliance with applicable laws, and that continuing violations of the type alleged herein may subject it to further enforcement, including additional administrative civil liability.

- 23. Attorney's Fees and Costs:** Except as otherwise provided herein, each Party shall bear all attorneys' fees and costs arising from the Party's own counsel in connection with the matters set forth herein.

- 24. Matters Addressed by Stipulation:** Upon adoption by the Lahontan Water Board as an Order, this Stipulation represents a final and binding resolution and settlement of all claims, violations or causes of action alleged herein. The provisions of this Paragraph are expressly conditioned on the full payment of the stipulated penalty amounts, in accordance with Paragraphs 13, 15, and 20, and by the deadlines specified in Paragraphs 13, 15, and 20, and the Discharger's full satisfaction of the obligations described in Paragraphs 13, 14, 15, 16, 17, 19, 20 and 21.

- 25. No Waiver of Right to Enforce:** The failure of the Prosecution Staff or Lahontan Regional Board to enforce any provision of this Stipulated Order shall in no way be deemed a waiver of such provision, or in any way affect the validity of this Order. The failure of the Prosecution Staff or Lahontan Regional Board to enforce any such provision shall not preclude it from later enforcing the same or any other provision of this Stipulated Order.

- 26. Public Notice:** The Parties agree that this Stipulation and Proposed Order, as signed by the Parties, will be noticed for a 30-day public comment period prior to being presented to the Lahontan Water Board for adoption. If the Lahontan Water Board Assistant Executive Officer or other Prosecution Staff receives significant new information that reasonably affects the propriety of presenting this Stipulation to the Lahontan Water Board for adoption as an Order by settlement, the Parties agree to

meet and confer concerning any such objections and comments, and may agree to revise or adjust the Stipulation as necessary or advisable under the circumstances. Alternatively, the Assistant Executive Officer may unilaterally declare this Stipulation void and decide not to present the Order to the Lahontan Water Board. The Discharger agrees that it may not rescind or otherwise withdraw its approval of this proposed Stipulation and Order.

27. **Interpretation:** This Stipulation and Order shall be construed as if the Parties prepared it jointly. Any uncertainty or ambiguity shall not be interpreted against any one Party. The Discharger is represented by counsel in this matter.
28. **No Oral Modification:** This Stipulation and Order shall not be modified by any of the Parties by oral representation made before or after its execution. All modifications must be in writing, signed by all Parties and approved the Lahontan Water Board.
29. **Integration:** This Stipulated Order constitutes the entire agreement between the Parties and may not be amended or supplemented except as provided for in this Stipulated Order.
30. **If the Stipulated Order Does Not Take Effect:** In the event that this Order does not take effect because it is not approved by the Lahontan Water Board, or its delegate, or is vacated in whole or in part by the State Water Board or a court, the Parties acknowledge that they expect to proceed to a contested evidentiary hearing before the Lahontan Water Board to determine whether to assess administrative civil liabilities for the underlying alleged violations, unless the Parties agree otherwise. The Parties agree that all oral and written statements and agreements made during the course of settlement discussions will not be admissible as evidence in the hearing. The Parties agree to waive the following objections:
- a. Objections related to prejudice or bias of any of the Lahontan Water Board members or their advisors and any other objections that are premised in whole or in part on the fact that the Lahontan Water Board members or their advisors were exposed to some of the material facts and the Parties' settlement positions as a consequence of reviewing the Stipulation and/or the Order, and therefore may have formed impressions or conclusions prior to any contested evidentiary hearing in this matter; or
 - b. Laches or delay or other equitable defenses based on the time period for administrative or judicial review to the extent this period has been extended by these settlement proceedings.
31. **Waiver of Hearing:** The Discharger has been informed of the rights provided by California Water Code section 13323, subdivision (b), and hereby waives its right to an evidentiary hearing before the Lahontan Water Board prior to the adoption of the Order. The Stipulation and Order will be heard as a settlement agreement before the Lahontan Water Board, but the hearing will not be an evidentiary hearing.

32. **Waiver of Right to Petition:** The Discharger hereby waives its right to petition the Lahontan Water Board's adoption of the Order for review by the State Water Board, and further waives its rights, if any, to appeal the same to a California Superior Court and/or any California appellate level court.
33. **Discharger's Covenant Not to Sue:** The Discharger covenants not to sue or pursue any administrative or civil claim(s) against any State Agency or the State of California, their officers, Board Members, employees, representatives, agents, or attorneys arising out of or relating to this Stipulation and Order.
34. **No Third Party Benefits:** Nothing in this Stipulated Order shall be deemed to create any rights in favor of, or to inure to the benefit of, any persons, who are not a signatory to this Stipulation (third party), or to waive or release any defense or limitation against third party claims.
35. **Necessity for Written Approvals:** All approvals and decisions of the Lahontan Water Board under the terms of this Order shall be communicated to the Discharger in writing. No oral advice, guidance, suggestions or comments by employees or officials of the Lahontan Water Board regarding submissions or notices shall be construed to relieve the Discharger of its obligation to obtain any final written approval required by this Order.
36. **Authority to Bind:** Each person executing this Stipulation in a representative capacity represents and warrants that he or she is authorized to execute this Stipulation on behalf of and to bind the entity on whose behalf he or she executes the Stipulation.
37. **Authority of Executive Officer to Extend Due Dates:** The Executive Officer or the Executive Officer's delegee may extend any of the due dates in this Stipulated Order upon the joint request of the Parties. Such extensions must be in writing.
38. **Effective Date:** The obligations in this Stipulated Order are effective and binding only upon the entry of an Order by the Lahontan Water Board which incorporates the terms of this Stipulation.
39. **Severability:** This Stipulation and Order are severable; should any provision be found invalid the remainder shall remain in full force and effect.
40. **Counterpart Signatures:** This Stipulation may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one document.

IT IS SO STIPULATED.

California Regional Water Quality Control Board
Lahontan Region

By: _____
Lauri Kemper
Assistant Executive Officer

Date: _____

By: Neil de Vries
Neil de Vries

Date: 12-6-13

By: Mary de Vries
Mary de Vries

Date: 12-6-13

IT IS SO STIPULATED.

California Regional Water Quality Control Board
Lahontan Region

By: Lauri Kemper
Lauri Kemper
Assistant Executive Officer

Date: 12/12/13

By: _____
Neil de Vries

Date: _____

By: _____
Mary de Vries

Date: _____

Order of the Lahontan Water Board

This Order incorporates the foregoing Stipulation.

1. In accepting the foregoing Stipulation, the Lahontan Water Board has considered, where applicable, each of the factors prescribed in California Water Code section 13327. The Lahontan Water Board's consideration of these factors is based upon information obtained by the Lahontan Water Board staff in investigating Violation Nos. 1 through 3 or otherwise provided to the Lahontan Water Board.
2. This is an action to enforce the laws and regulations administered by the Lahontan Water Board. The Lahontan Water Board finds that issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, sections 21000 et seq.), in accordance with section 15321(a)(2), title 14, of the California Code of Regulations.

Pursuant to California Water Code section 13323 and Government Code section 11415.60, **IT IS HEREBY ORDERED** on behalf of the California Lahontan Regional Water Quality Control Board.


PATTY Z. KOUYOUMDJIAN
EXECUTIVE OFFICER

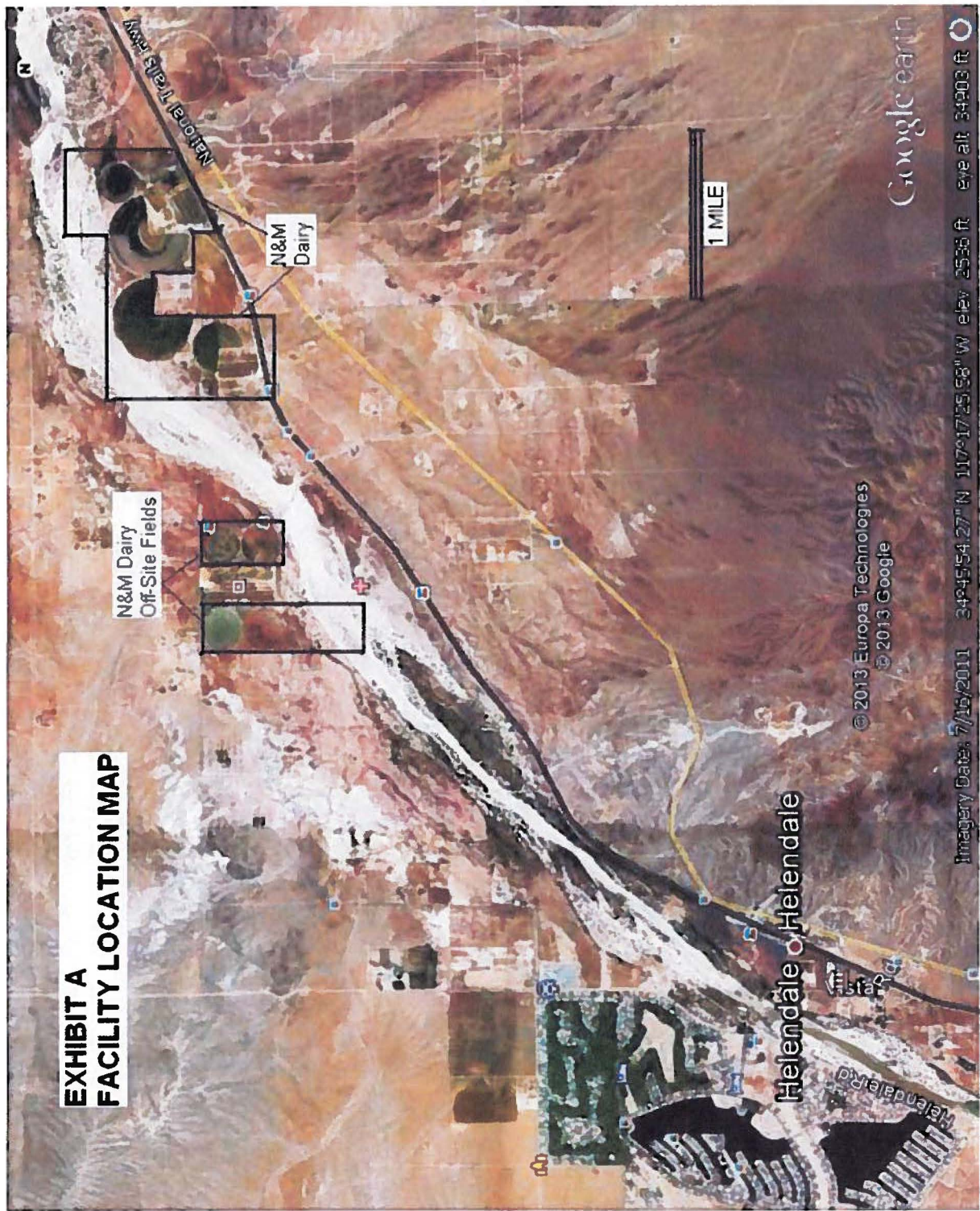
Date: Dec. 12, 2013

Exhibits:

- A. Facility Map
- B. Administrative Civil Liability Methodology for Violation Nos. 1, 2, and 3
- C. SEP Description and Schedule for Performance

EXHIBIT A
FACILITY MAP

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EXHIBIT B

ADMINISTRATIVE CIVIL LIABILITY METHODOLOGY FOR VIOLATION NOS. 1, 2, AND 3

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EXHIBIT B

ADMINISTRATIVE CIVIL LIABILITY METHODOLOGY FOR VIOLATION NOS. 1, 2, AND 3 N&M DAIRY

On November 17, 2009, the State Water Resources Control Board (State Water Board) adopted Resolution No. 2009-0083 amending the Water Quality Enforcement Policy (Enforcement Policy). The Enforcement Policy provides a methodology for determining administrative civil liability. The methodology includes an analysis of the factors in Water Code section 13327, and it enables fair and consistent implementation of the Water Code's liability provisions.

The Lahontan Water Board Prosecution Team alleges that the Discharger failed to comply with Cleanup and Abatement Order Nos. R6V-2010-0029, R6V-2010-0029A2, and R6V-2011-0056 (CAOs). Below is a table listing the alleged violations of the CAOs.

Violation No.	Description	CAO No.	Days of Violation	Proposed Base Liability
1	Failure to remove all excess manure by January 17, 2012.	R6V-2010-0029A2	349	\$230,340
2	Failure to submit monthly manure progress reports for months of March through September, 2012.	R6V-2010-0029, R6V-2010-0029A2	800	\$28,210
3	Failure to complete drainage and corral grading, and eliminate storm water ponding in corrals.	R6V-2011-0056	16	\$8,800
			TOTAL	\$267,350

For the purpose of applying the Enforcement Policy's administrative civil liability methodology, the alleged violations are non-discharge violations. Because the Complaint only alleges non-discharge violations, Step Nos. 1 and 2 of the Enforcement Policy's administrative civil liability methodology are not applicable.

Methodology Steps 3 through 5 are discussed relative to each violation. Steps 6 through 10 apply to the Combined Total Base Liability Amount for all three violations, and these steps are discussed after the Total Base Liability amounts are discussed for each violation.

Violation No. 1
Remove Excess Manure by January 17, 2012

Step 3: Initial Liability Determination

1. Potential for Harm – Minor

The excess manure was located where rainfall and storm water runoff could come into contact with the manure and discharge to ground and surface waters of the Middle Mojave River valley. After contact with the manure, the storm water runoff contains concentrations of bacteria, Total Dissolved Solids (TDS or salts), and nutrients. The failure to remove all excess manure by January 17, 2012 allowed waste containing bacteria, TDS, and nutrients to be discharged to the ground and surface waters of the Middle Mojave River Valley. Such discharges, should they occur, can potentially adversely impact aquatic habitat beneficial uses, in addition to contact and non-contact recreational beneficial uses. Such discharges can also introduce nutrients such as nitrogen and phosphorus and TDS, to the ground water. The shallow ground water is the drinking water supply for a number of nearby residents, and discharges of nutrients and TDS may have a deleterious impact on the drinking water supply.

Downgradient and cross-gradient water sampling results confirm nitrate and TDS in ground water are exceeding the Maximum Contaminant Level (MCL) and the Secondary Maximum Contaminant Level (SMCL), respectively. However, the excess manure is not the sole source contributing to the existing and ongoing nitrate and TDS pollution of local groundwater resources. Other potential sources include the agricultural fields and wastewater lagoons.

Although the excess manure poses a potential threat to the groundwater quality, the Discharger actively worked to remove the excess manure from the facility. As of January 17, 2012, less than 11 percent (4,100 tons) of the excess manure remained on site. Water Board staff observed that old stockpiles of manure were mostly gone during a May 22, 2012 inspection. The amount of excess manure remaining after the January 17, 2012 deadline was likely not a substantial threat to water quality, and the Potential for Harm for the violation is determined to be minor.

2. Deviation from Requirement - Minor

The Discharger identified approximately 40,250 tons of excess manure that had to be removed in order to comply with the January 17, 2012 deadline. They ultimately removed 36,149 tons by this date. Less than 11 percent of the excess manure remained on site until it was ultimately removed by the end of 2012. The Discharger was unable to remove the remaining portion of the excess manure by the deadline due to wet conditions and because of equipment failure. However, the Discharger displayed a general intent to comply with the requirement, and the Discharger substantially complied with the requirement by removing approximately 89 percent of

the excess manure by the deadline. The deviation from the requirement is determined to be minor.

Based upon a minor potential for harm and a minor deviation from the requirement, a per day factor of **0.1** was selected. The initial liability amount is then determined by multiplying the per day factor by the total number of days of violation and by statutory maximum daily penalty. For this violation, the statutory maximum penalty is \$5,000 (Water Code section 13350.e.1).

$$\begin{aligned}\text{Initial Liability} &= (\text{Per Day Factor}) \times (\text{Days of Violation}) \times (\text{Maximum Penalty}) \\ &= (0.1) \times (349 \text{ days}) \times (\$5,000/\text{day}) \\ &= \$174,500\end{aligned}$$

Step 4: Adjustment Factors

Multiple Day Violations

The Enforcement Policy provides that, for violations lasting more than 30 days, the Water Board may adjust the per-day basis for civil liability if certain findings are made and provided that the adjusted per-day basis is no less than the per-day economic benefit, if any, resulting from the violation.

The Discharger has failed to comply with its cleanup and abatement order for 349 days. The continuance of this violation does result in an economic benefit that can be measured on a daily basis, the failure to remove all excess manure causes daily detrimental impacts to the environment, and the violation occurred with the knowledge and control of the Discharger. Because no express finding can be made justifying the reduction in the number of days of violations, the Discharger remains out of compliance for 349 days, and the revised initial liability remains at \$174,500.

Adjustment for Culpability - 1.2

For culpability, the Enforcement Policy suggests an adjustment resulting in a multiplier between 0.5 to 1.5, with the lower multiplier for accidental incidents, and the higher multiplier for intentional or negligent behavior. In this case, a Culpability multiplier of **1.2** has been selected.

The Facility's Waste Discharge Requirements issued in 2001 state that manure in excess of 3,100 dry tons per year (agronomic rate application for the Facility) must be removed from the Facility. The Discharger maintained approximately 4,300 cattle on the facility, which generated up to 40 tons per day of manure (14,600 tons per year of manure). Therefore, the Discharger should have been actively removing 11,500 tons per year of manure from the Facility. The Discharger's failure to comply with its permit condition and the requirement contained in Cleanup and Abatement Order No. R6V-

2010-0029A2 to remove all excess manure by January 17, 2012 resulted in accumulation of manure which posed a threat to groundwater.

Furthermore, the Water Board's Prosecution Team has exercised significant discretion in deciding whether to pursue administrative civil liability for violating the initial cleanup and abatement order (No. R6V-2010-0029). Doing so is consistent with the Prosecution Team's message to the Lahontan Water Board and to the Discharger that its primary interest is compliance. On July 2, 2010, the Assistant Executive Officer extended the deadline by a year, until October 19, 2011 (Order No. R6V-2010-0029A1). On October 12, 2011, the Discharger requested the Water Board amend the due date of October 19, 2011 stating that the removal was not achievable, and the Assistant Executive Officer again extended the deadline a second time to January 17, 2012 (Order No. R6V-2010-0029A2) with an additional stipulation that the Discharger is to remove a minimum amount of 2,000 tons per month of excess manure.

Although the Discharger is culpable in failing to comply with the requirement for removing the excess manure, a larger factor than 1.2 is not warranted. This is based upon the fact that the Discharger removed approximately 89 percent of the excess manure by the January 17, 2012 compliance date, thereby demonstrating a general intent to comply with the requirement.

Adjustment for Cleanup and Cooperation - 1.1

For cleanup and cooperation, the Enforcement Policy suggests an adjustment should result in a multiplier between 0.75 and 1.5. A lower multiplier is appropriate for situations where there is a high degree of cleanup and/or cooperation and a higher multiplier is appropriate for situations where cleanup and/or cooperation is minimal or absent. In this case, a Cleanup and Cooperation multiplier of **1.1** has been selected for the reasons described below:

The Discharger has shown a degree of cooperation by removing approximately 89 percent of excess manure by the January 17, 2012 deadline. However, the Discharger still failed to remove all of the excess manure by the deadline, even though the January 17, 2012 deadline was the second deadline extension allowed to the Discharger from the original October 22, 2010 deadline. The Discharger did not achieve compliance until December 2012, almost a year after the deadline. The Discharger's inability to achieve compliance warrants a cleanup and cooperation factor of at least 1.1, but the Discharger's ability to achieve significant compliance warrants not imposing a greater factor.

Adjustment for History of Violations - 1.0

The Enforcement Policy suggests that where there is a history of repeat violations, a **minimum** multiplier of 1.1 should be used for this factor. In this case, a multiplier of **1.0** has been selected based upon the absence of prior violations of Cleanup and Abatement Order Nos. R6V-2010-0029, R6V-2010-0029A2, and R6V-2011-0056. A

review of the California Integrated Water Quality System (CIWQS) and Water Board files shows that the Violation represents the first violation of all CAOs.

Step 5: Determination of Total Base Liability Amount

The Total Base Liability for Violation No. 1 is **\$230,340**. The Total Base Liability for the violation is determined by multiplying the Initial Liability (no revisions warranted for multi-day violation) by the multipliers associated with each of the Adjustment Factors discussed above.

$$\begin{aligned}\text{Base Liability} &= (\text{Revised Initial Liability}) \times (\text{Culpability}) \times (\text{Cleanup/Cooperation}) \times (\text{History}) \\ &= (\$174,500) \times (1.2) \times (1.1) \times (1.0) \\ &= \$230,340\end{aligned}$$

Violation No. 2

Provide monthly manure progress reports beginning January 3, 2012

Step 3: Initial Liability Determination

1. Potential for Harm – Minor

The failure to submit monthly progress reports does not directly or immediately impact beneficial uses. Even though beneficial uses may not be directly or immediately impacted by the alleged violation, the failure to submit the required monthly progress report has an ancillary effect on beneficial uses. The Lahontan Water Board lacks the necessary information to monitor and evaluate the cleanup activities related to the management of excess manure which poses a threat to surface or ground waters of the Middle Mojave River Valley. The failure to submit a summary report poses a minor threat to the beneficial uses of potential receiving waters. Therefore, the potential for harm to beneficial uses is determined to be minor.

2. Deviation from Requirement - Moderate

The Discharger failed to submit the Monthly Manure Removal Progress Reports for March 2012 through September 2012 by the required deadlines. On October 26, 2012, the Discharger submitted the reports for March through September 2012. Self-reporting is a necessary part of the Lahontan Water Board's effectiveness to regulate of water quality. Self-reporting is a means for the Discharger to demonstrate its compliance with Water Board requirements. In this case, the Discharger disregarded the requirement to timely submit reports, thereby depriving the Lahontan Water Board of the ability to timely evaluate the Discharger's progress, or lack thereof, related to cleanup activities. The Discharger submitted the Monthly Manure Removal Progress Reports in January and February 2012 but failed to submit the monthly reports from March through September. Therefore the requirement to submit monthly reports starting January 2012 was only partially achieved.

Based on a minor potential for harm and a moderate deviation from the requirement, a per day factor of **0.25** was selected. This value is to be multiplied by the days of violation (see following table) and the maximum per day penalty. Pursuant to Water Code section 13268, subdivision (b)(1), the statutory maximum penalty is \$1,000 for each day in which the violation occurs.

$$\begin{aligned}\text{Initial Liability} &= (\text{Per Day Factor}) \times (\text{Days of Violation}) \times (\text{Maximum Penalty}) \\ &= (0.25) \times (800 \text{ days}) \times (\$1,000/\text{day}) \\ &= \$200,000\end{aligned}$$

Monthly Report	Days Submitted Late
March, 2012	206
April, 2012	176
May, 2012	144
June, 2012	115
July, 2012	84
August, 2012	52
September, 2012	23
Total Days	800

Step 4: Adjustment Factors

Multiple Day Violations

The Enforcement Policy provides that, for violations lasting more than 30 days, the Water Board may adjust the per-day basis for civil liability if certain findings are made and provided that the adjusted per-day basis is no less than the per-day economic benefit, if any, resulting from the violation.

The Discharger has failed to comply with its cleanup and abatement order requirement. Below is a table providing the days of violation for each report. The continuance of these violations does not result in an economic benefit that can be measured on a daily basis. The economic benefit is the one-time cost of submitting the report to the Regional Board. Therefore, an adjustment can be made.

The Water Board Prosecution Team recommends applying the alternative approach to civil liability calculation provided by the Enforcement Policy. Using this approach, the calculation of days of violation will include the first day of violation, plus one additional day of violation for each five-day period up to the 30th day of violation, and thereafter, plus one additional day of violation for each 30-day period. The table below reflects the total number of collapsed days for each missing report.

Monthly Report	Days Submitted Late	Compressed Days
March, 2012	206	12
April, 2012	176	11
May, 2012	144	10
June, 2012	115	9
July, 2012	84	8
August, 2012	52	7
September, 2012	23	5
Total Days	800	62

The Revised Initial Liability is then recalculated based upon the revised number of days of violation from the table above.

$$\begin{aligned}
 \text{Revised Initial Liability} &= (\text{Per Day Factor}) \times (\text{Compressed Days}) \times (\text{Maximum Penalty}) \\
 &= (0.25) \times (62 \text{ days}) \times (\$1,000/\text{day}) \\
 &= \$15,500
 \end{aligned}$$

Adjustment for Culpability - 1.3

The Discharger was aware of the requirement to submit the monthly progress reports. Indeed, the Discharger demonstrated its disregard for the regulatory program by timely submitting its monthly progress reports for January and February, 2012 but then failing to submit reports for March through September until October 26, 2012. Therefore, a Culpability multiplier of **1.3** is appropriate.

Adjustment for Cleanup and Cooperation - 1.4

In this case, a Cleanup and Cooperation multiplier of **1.4** has been selected because of the lack of cooperation exhibited by the Discharger to return to compliance and submit the missing reports. The reports from March through September were not submitted until October 26, 2012, after Water Board staff initiated discussions of a forthcoming Administrative Civil Liability Complaint against the Discharger. Even though the Discharger submitted the missing reports in October 2012, the Discharger's voluntary cooperation had been absent.

Adjustment for History of Violations – 1.0

In this case, a multiplier of **1.0** has been selected based upon the absence of prior violations of Cleanup and Abatement Order Nos. R6V-2010-0029, R6V-2010-0029A2, and R6V-2011-0056. A review of the California Integrated Water Quality System (CIWQS) and Water Board files shows that the Violation represents the first violation of all CAOs.

Step 5: Determination of Total Base Liability Amount

The Total Base Liability for Violation No. 1 is **\$28,210**. The Total Base Liability for the violation is determined by multiplying the Revised Initial Liability by the multipliers associated with each of the Adjustment Factors discussed above.

$$\begin{aligned}\text{Base Liability} &= (\text{Revised Initial Liability}) \times (\text{Culpability}) \times (\text{Cleanup/Cooperation}) \times (\text{History}) \\ &= (\$15,500) \times (1.3) \times (1.4) \times (1.0) \\ &= \$28,210\end{aligned}$$

Violation No. 3
Re-grade Drainage Systems and Corrals to Eliminate Ponding
by December 15, 2012

Step 3: Initial Liability Determination

1. Potential for Harm – Minor

The Discharger's failure to re-grade drainage systems and corrals at the Facility potentially allows storm water to pond in areas throughout the corrals within the facility. The ponded water potentially creates fly breeding habitat and exacerbates ongoing fly nuisance issues throughout the surrounding community. Furthermore, the ponded water potentially creates a source of nutrients and TDS to the ground water, thereby exacerbating ongoing groundwater contamination issues.

However, the Discharger recently closed one of its two dairy corral operations. A Water Board staff inspection in February 2013 documented the presence of minimal areas of ponded storm water. Inspection results at the time found that storm water runoff from the corrals drained to onsite agricultural fields and did not leave the facility. Furthermore, the potential impacts to ground water from the few observed ponded areas are minimal due to the hardpack conditions found throughout the corral areas that restrict downward migration of pollutants. More recent inspection of the Facility indicates the second dairy operation is closing, with most cows removed from the Facility. Potential discharges are reduced accordingly. Therefore, the circumstances of the violation indicate a minor potential for harm.

2. Deviation from Requirement - Minor

While the Discharger failed to comply with the requirement by the December 15, 2012 deadline, the Discharger took steps prior to the December 15, 2012 deadline which achieved the same goal to contain runoff away from surface waters. Additionally, the Discharger regularly graded and stockpiled manure at the active dairy corral in a manner that minimized areas of ponded storm water, as observed in February 2013 during a Water Board staff inspection. The remaining operating dairy has been observed to have areas of ponded storm water, but these areas are minimal and do not pose a threat to surface waters. These actions indicate a general intent to comply with the requirement. The deviation from the requirement is determined to be minor.

Based on a minor potential for harm and a minor deviation from the requirement, a per day factor of 0.1 was selected. The initial liability amount is then determined by multiplying the per day factor by the total number of days of violation and by the statutory maximum penalty. Pursuant to Water Code section 13350, subdivision (e)(1), the statutory maximum penalty is \$5,000 for each day the violation occurs.

$$\begin{aligned}
 \text{Initial Liability} &= (\text{Per Day Factor}) \times (\text{Days of Violation}) \times (\text{Maximum Penalty}) \\
 &= (0.1) \times (16 \text{ days}) \times (\$5,000/\text{day}) \\
 &= \$8,000
 \end{aligned}$$

Step 4: Adjustment Factors

Multiple Day Violations

The Discharger has failed to comply with its cleanup and abatement order for 16 days. The continuance of this violation does result in an economic benefit related to savings in survey and grading expenditures, the failure to completely re-grade the corrals and drainages potentially causes detrimental impacts to the environment, and the violation occurred with the knowledge and control of the Discharger. Because no express finding can be made justifying the reduction in the number of days of violations, the Discharger remained out of compliance for 16 days, and no reduction in the initial liability can be justified using the alternate approach for calculating multiday violations.

Adjustment for Culpability - 1.1

The Discharger failed to grade the corrals and drainages to prevent storm water ponding. However, the Discharger regularly graded and stockpiled manure at the active dairy corral in a manner that minimized areas of ponded storm water, as observed in February 2013 during a Water Board staff inspection. Overall, storm water runoff drains to onsite agricultural fields and does not leave the property site. Therefore, a Culpability multiplier of **1.1** is appropriate.

Adjustment for Cleanup and Cooperation – 1.0

The Discharger has hired a consultant who has worked diligently in the recent months to ensure the overall goal of no discharges to waters of the state, has been met. While the Discharger has continued to stockpile manure from its remaining dairy operation, the manure stockpiles have been created in a manner that is consistent with the permit for the facility, and the corral area has been graded in a manner that reduces the amount of storm water ponding. Moreover, the Discharger has closed one of its dairy operations, thereby eliminating one of the sources of the potential threats to water quality, and is in the process of closing the other dairy. The Discharger's efforts to achieve compliance warrant a neutral cooperation multiplier of **1.0**.

Adjustment for History of Violations – 1.0

In this case, a multiplier of **1.0** has been selected based upon the absence of prior violations of Cleanup and Abatement Order Nos. R6V-2010-0029, R6V-2010-0029A2, and R6V-2011-0056. A review of the California Integrated Water Quality System (CIWQS) and Water Board files shows that the Violation represents the first violation of all CAOs.

Step 5: Determination of Total Base Liability Amount

The Total Base Liability for the violation is **\$8,800**. The Total Base Liability for the violation is determined by multiplying the Revised Initial Liability by the multipliers associated with each of the Adjustment Factors discussed above.

$$\begin{aligned}\text{Base Liability} &= (\text{Revised Initial Liability}) \times (\text{Culpability}) \times (\text{Cleanup/Cooperation}) \times (\text{History}) \\ &= (\$8,000) \times (1.1) \times (1.0) \times (1.0) \\ &= \$8,800\end{aligned}$$

Methodology Steps 6 through 10

Step 6: Ability to Pay and Ability to Continue Business

The Enforcement Policy provides that if the Water Board has sufficient financial information to assess the violator's ability to pay the Total Base Liability, or to assess the effect of the Total Base Liability on the violator's ability to continue in business, then the Total Base Liability amount may be adjusted downward.

In this case, the Lahontan Water Board Prosecution Team has sufficient information to suggest the Discharger has the ability to pay the proposed liability. To date, the Discharger has not provided information indicating the inability to pay the proposed liability. In the past few months, the Discharger notified Water Board staff that the dairy would be closing.

Step 7: Other Factors as Justice May Require

The Enforcement Policy provides that if the Water Board believes that the amount determined using the above factors is inappropriate, the liability amount may be adjusted under the provision for "other factors as justice may require," if express findings are made. Additionally, the staff costs for investigating the violation and preparing the Complaint should be added to the liability amount.

Although the Lahontan Water Board has incurred **\$109,500** in investigative costs to date associated with all of the alleged violations, pursuant to Government Code 11415.60 and Page 22 of the Enforcement Policy, Regional Board staff is not seeking to recover these costs in this action.

Step 8: Economic Benefit

The Enforcement Policy directs the Water Board to determine any Economic Benefit Amount of the violation based on the best available information. The Enforcement Policy suggests that the Water Board compare the Economic Benefit Amount to the Adjusted Total Base Liability and ensure that the Adjusted Total Base Liability is at a minimum, 10 percent greater than the Economic Benefit Amount. Doing so should create a deterrent effect and will prevent administrative civil liabilities from simply becoming the cost of doing business.

Violation No. 1

The economic benefit associated with Violation No. 1 is estimated to be \$243 based upon the interest savings for failing to remove the remaining 4,100 tons of manure by the January 17, 2012 deadline.

Violation No. 2

The economic benefit associated with Violation No. 2 is close to zero. The Discharger's benefit from delinquent submitting the monthly manure reports is negligible.

Violation No. 3

The economic benefit associated with Violation No. 3 is estimated to be \$5,000 based upon the costs for surveying and grading the area associated with the remaining operating dairy.

The total economic benefit for all three violations is **\$5,243**.

Step 9: Maximum and Minimum Liability Amounts

The Enforcement Policy directs the Water Board to consider and maximum or minimum liability amounts set forth in the applicable statutes.

Violation No. 1

The Lahontan Water Board is authorized to impose an administrative civil liability of up to \$5,000 per day pursuant to Water Code section 13350(e)(1). However, Water Code section 13350(e)(1)(B) requires a minimum civil liability of \$100 per day when there is no discharge but an order of the Lahontan Water Board is violated. For the 349 days the Discharger failed to remove all the manure from the facility, the maximum potential civil liability is \$1,745,000, and the minimum required civil liability is \$34,900.

Violation No. 2

The Lahontan Water Board is authorized to impose an administrative civil liability of up to \$1,000 per day pursuant to Water Code section 13268(b). There is no statutory minimum associated with this violation. For the 800 days the Discharger failed to submit the monthly manure progress reports, the maximum potential civil liability is \$800,000.

Violation No. 3

The Lahontan Water Board is authorized to impose an administrative civil liability of up to \$5,000 per day pursuant to Water Code section 13350(e)(1). However, Water Code section 13350(e)(1)(B) requires a minimum civil liability of \$100 per day when there is no discharge but an order of the Lahontan Water Board is violated. For the 16 days the Discharger failed to grade the corrals and drainages at the facility, the maximum potential civil liability is \$80,000, and the minimum required civil liability is \$1,600.

The proposed liability falls within these maximum and minimum liability amounts.

The maximum potential liability for all three violations is **\$2,625,000**. The minimum required liability for all three violations is **\$36,500**.

Step 10: Final Liability Amount

The final liability amount for Violations Nos. 1 through 3 is \$376,850.

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EXHIBIT C

SEP DESCRIPTION AND SCHEDULE FOR PERFORMANCE

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EXHIBIT C

NEIL AND MARY DE VRIES (DBA N&M DAIRY) FLOODPLAIN AND HABITAT CONSERVATION EASEMENT

SUPPLEMENTAL ENVIRONMENTAL PROJECT DESCRIPTION AND SCHEDULE FOR PERFORMANCE

1. Introduction

As part of the terms agreed upon in the Stipulation and Order between Neil and Mary de Vries (doing business as N&M Dairy) and the Prosecution Team of the Lahontan Regional Water Quality Control Board (Lahontan Water Board), a Supplemental Environmental Project (SEP) in the form of a Conservation Easement must be implemented and completed by Neil and Mary de Vries no later than the SEP Completion Date. The SEP would set aside land owned by the de Vries into a conservation easement, the goals of which would be to improve Mojave River floodplain function, restore floodplain and adjacent natural habitat within the easement, and improve water quality.

The N&M Dairy property is located on parcels within and adjacent to the Mojave River, approximately five miles northeast of the community of Helendale (Figure 1). Parcels comprising the Dairy include Assessor Parcel Numbers (APN) 466-041-01, -17, and -20 through -23; 466-101-06 and -07; and 466-111-02 (Figure 2). The Dairy includes irrigated fodder crop production, a portion of which is within the active channel and floodplain of the Mojave River. The Mojave River in this area is a broad, relatively flat channel that normally contains no surface water flow. However, during intense rainfall or sustained precipitation events, the Mojave River may fill the entire width of the active channel and portions of the floodplain in this area.

2. SEP Boundary Description

The proposed conservation easement contains the following parcels or portions, consisting of approximately 310 acres (Figure 3):

- a. The northern three-quarters of APN 466-041-01, consisting of that portion north of a line from the southwestern corner of the parcel to a point midway along the eastern boundary of the parcel.
- b. The northern half of APN 466-041-17.
- c. The entirety of APNs 466-041-20, -21, and -22.
- d. The northern approximately 60 percent of APN 466-041-23, consisting of that portion north of a line from the midway point along the eastern boundary of APN

466-041-17 to a point on the eastern boundary of APN 466-041-23 approximately 2000 feet south of the northeastern corner of APN 466-041-23.

The SEP Area boundaries will be finalized by the conservation easement demarcation milestone and shall not deviate substantially from the proposed boundary description. Minor adjustments of the SEP Area boundaries described above may be accepted in writing by the Lahontan Water Board's Assistant Executive Officer.

3. SEP Conservation Easement Restrictions and Acceptable Uses

As stated above, the goals of the conservation area are to improve the floodplain functions of the Mojave River, restore floodplain and adjacent natural habitat within the easement, and improve water quality. In order to achieve these goals, the following activities must be complied with:

a. Prohibited Activities or Uses

- i. Agricultural operations of any type, including, but not limited to, agricultural crop planting, irrigation, and harvest, and grazing by domestic or commercial livestock animals.
- ii. Land surface grading or disturbance, except to improve floodplain function (such as removing berms or other man-made channel restrictions), to assist restoration of floodplain and natural habitat, or to facilitate wetland creation and maintenance. Any river channel or floodplain grading activities conducted by the San Bernardino County Flood Control District within the easement must be in accordance with a Lahontan Water Board-approved plan and/or Clean Water Act section 401 Water Quality Certification.
- iii. Residential, commercial, or industrial structures or activities.
- iv. Vehicular access.

b. Acceptable Activities or Uses

- i. Natural river channel and floodplain functions.
- ii. River channel, floodplain, and adjacent upland wildlife habitat.
- iii. Constructed wetlands for wetland wildlife habitat.
- iv. Conservation banking, such as wildlife habitat or wetland mitigation banking.
- v. Ground water pumping from existing wells.

To promote the return of natural conditions, the southern boundary of the conservation easement must be appropriately demarcated.

4. SEP Conservation Easement

The SEP must be devised in conformance with the Conservation Easement Act (Civil Code sections 815-816), requiring, in part, that the conservation easement be an interest in real property and be perpetual in duration. As outlined in Section 3, above, the substantive restrictions and acceptable uses must be contained in the instrument creating the conservation easement.

5. Schedule of Performance

a. Monthly Progress Reports

Progress reports detailing the actions taken to complete the SEP shall be submitted monthly, with the **first report due on January 31, 2014**, until the SEP Completion Date. The progress reports must detail the actions the Discharger has taken to survey the Conservation Easement boundary, record the easement with the San Bernardino County Assessor-Recorder, and demarcate the boundaries of the easement. Documentation of survey, recordation, and easement demarcation must be provided. Progress reports are required until the Discharger provides the Final Completion Report required by the SEP Policy.

b. Conservation Easement Boundary Demarcation Proposal

A proposal and plan to identify on the land the boundaries of the Conservation Easement must be submitted by **January 31, 2014 for the Lahontan Water Board Executive Officer's approval**. The Lahontan Water Board recognizes that fencing and certain other permanent boundary demarcation structures within the one hundred year floodplain of the Mojave River is not appropriate and may adversely affect river function and habitat (e.g. wildlife access).

c. Conservation Easement Boundary Survey

Survey of the Conservation Easement boundary shall be performed by a California-licensed Land Surveyor. A report from the Surveyor including the maps, plats, descriptions or other documents necessary to legally describe the Conservation easement for purposes of recording the Easement with the County Assessor-Recorder shall be provided to the Lahontan Water Board by **March 31, 2014**.

d. Demarcation of the Conservation Easement

The Conservation Easement boundary shall be appropriately demarcated in accordance with the accepted Demarcation Proposal and documentation of proof of such demarcation shall be submitted to the Lahontan Water Board by **May 30, 2014**.

e. Terms of Conservation Easement

The terms of the conservation easement must be submitted for the Lahontan Water Board Executive Officer's approval by May 30, 2014. If the Lahontan Water Board Executive Officer does not approve the terms of the conservation easement by June 30, 2014, a request can be made to the Lahontan Water Board Executive Officer for consideration to extend the due date for the Conservation Easement.

f. Recording the Conservation Easement

Proof of the execution of the Conservation Easement must be provided by **July 31, 2014**. The Conservation Easement must be recorded with the County Recorder by **July 31, 2014**.

Attachment: Figure 1

